Crew Series
RACK CONVEYER DISHMACHINES
with WISR ™

TECHNICAL MANUAL

ELECTRICALLY HEATED MODELS:

CREW 44
CREW 66

STEAM HEATED MODELS:

CREW 44S
CREW 66S

Jackson®
Warewashing Systems

May 26, 2015
P/N 07610-003-78-18 L

Jackson WWS, Inc.
P.O. Box 1060, Hwy 25E
Barbourville, KY USA
1.888.800.5672
www.jacksonwws.com

MANUFACTURERS WARRANTY

ONE YEAR LIMITED PARTS & LABOR WARRANTY

ALL NEW JACKSON DISHWASHERS ARE WARRANTED TO THE ORIGINAL PURCHASER TO BE FREE FROM DEFECTS IN MATERIAL OR WORKMANSHIP, UNDER NORMAL USE AND OPERATION FOR A PERIOD OF (1) ONE YEAR FROM DATE OF PURCHASE, BUT IN NO EVENT TO EXCEED (18) EIGHTEEN MONTHS FROM DATE OF SHIPMENT FROM THE FACTORY.

Jackson WWS agrees under this warranty to repair or replace, at its discretion, any original part which fails under normal use due to faulty material or workmanship during the warranty period, providing the equipment has been unaltered, and has been properly installed, maintained and operated in accordance with applicable factory instruction manual furnished with the machine and failure is reported to the authorized service agency within the warranty period. This includes the use of factory specified genuine replacement parts, purchased directly from a Jackson authorized parts distributor or service agency. Use of generic replacement parts may create a hazard and void warranty certification.

The labor to repair or replace such failed part will be paid by Jackson WWS, within the continental United States, Hawaii and Canada, during the warranty period provided a Jackson WWS authorized service agency, or those having prior authorization from the factory, performs the service. Any repair work by persons other than Jackson WWS authorized service agency is the sole responsibility of the customer. Labor coverage is limited to regular hourly rates; overtime premiums and emergency service charges will not be paid by Jackson WWS.

Accessory components not installed by the factory carry a (1) one year parts warranty only. Accessory components such as table limit switches, pressure regulators, pre-rinse units, etc. that are shipped with the unit and installed at the site are included. Labor to repair or replace these components is not covered by Jackson WWS.

This warranty is void if failure is a direct result from shipping, handling, fire, water, accident, misuse, acts of God, attempted repair by authorized persons, improper installation, if serial number has been removed or altered, or if unit is used for purpose other than originally intended.

TRAVEL LIMITATIONS

Jackson WWS limits warranty travel time to (2) two hours and mileage to (100) one hundred miles. Jackson WWS will not pay for travel time and mileage that exceeds this, or any fees such as those for air or boat travel without prior authorization.

WARRANTY REGISTRATION

To register your product go to www.jacksonwws.com or call 1-888-800-5672. Failure to register your product will void the warranty.

REPLACEMENT PARTS WARRANTY

Jackson replacement parts are warranted for a period of 90 days from date of installation or 180 days from the date of shipment from the factory, whichever occurs first.

PRODUCT CHANGES AND UPDATES

Jackson WWS reserves the right to make changes in design and specification of any equipment as engineering or necessity requires.

THIS IS THE ENTIRE AND ONLY WARRANTY OF JACKSON WWS. JACKSON'S LIABILITY ON ANY CLAIM OF ANY KIND, INCLUDING NEGLIGENCE, WITH RESPECT TO THE GOODS OR SERVICES COVERED HEREUNDER, SHALL IN NO CASE EXCEED THE PRICE OF THE GOODS OR SERVICES OR PART THEREOF WHICH GIVES RISE TO THE CLAIM.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING FOR FITNESS OR MERCHANTABILITY, THAT ARE NOT SET FORTH HEREIN, OR THAT EXTEND BEYOND THE DURATION HEREOF. UNDER NO CIRCUMSTANCES WILL JACKSON WWS BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, OR FOR THE DAMAGES IN THE NATURE OF PENALTIES, ARISING OUT OF THE USE OR INABILITY TO USE ANY OF ITS PRODUCTS.

ITEMS NOT COVERED

THIS WARRANTY DOES NOT COVER CLEANING OR DELIMING OF THE UNIT OR ANY COMPONENT SUCH AS, BUT NOT LIMITED TO, WASH ARMS, RINSE ARMS OR STRAINERS AT ANYTIME. NOR DOES IT COVER ADJUSTMENTS SUCH AS, BUT NOT LIMITED TO TIMER CAMS, THERMOSTATS OR DOORS, BEYOND 30 DAYS FROM THE DATE OF INSTALLATION. IN ADDITION, THE WARRANTY WILL ONLY COVER REPLACEMENT WEAR ITEMS SUCH AS CURTAINS, DRAIN BALLS, DOOR GUIDES OR GASKETS DURING THE FIRST 30 DAYS AFTER INSTALLATION. ALSO, NOT COVERED ARE CONDITIONS CAUSED BY THE USE OF INCORRECT (NON-COMMERICAL) GRADE DETERGENTS, INCORRECT WATER TEMPERATURE OR PRESSURE, OR HARD WATER CONDITIONS.

REVISION HISTORY

Revision Letter	Revision Date	Made By	Applicable ECNs	Details
A	07-27-10	CW/JC	N/A	Initial release of manual.
B	02-25-11	JC	8183 8186 8187 8177	Transformer change for 208V units. Drain handle operation & alignment change. Door splash shield addition. Rinse paddle switch operation. Initial release of 66" units, 44" Steam units & 66" Steam units.
C	06-30-11	JC	N/A	Initial release of 23" & 30" unhooded side loaders.
D	03-28-13	JC	N/A	Changed Jackson logo.
E	08-12-13	BG	8271	Added door magnet cover.
F	01-31-14	MHH		Added Blower/Dryer option. Updated control box. Updated schematics.
G	10-27-14	KAP	QOF-386	Added new Vent Shield P/N 05700-004-18-73 on pg. 54
H	03-02-15	KAP	N/A	Updated P/N for item #10 on pg. 55.
J	03-10-15	KAP	N/A	Updated P/N for item #4 on pg. 71
K	04-17-15	KAP	N/A	Updated Rinse Assembly Drawing on pg. 41
L	05-26-15	KAP	N/A	Combined PLC 1 & 2 under part # 06401-004-13-59

NOMENCLATURE FOR THE MODELS COVERED IN THIS MANUAL

Jackson®

Warewashing Systems

CREW 44
CREW 66

Chemical sanitizing rack conveyer machine

CREW 44S
CREW 66S

Steam cleaning rack conveyer machine

Model:_____

Serial No.:_____

Installation Date:_____

Service Rep. Name:_____

Phone Number:_____

Jackson WWS, INC provides technical support for all of the dishmachines detailed in this manual. We strongly recommend that you refer to this manual before making a call to our technical support staff. Please have this manual with you when you call so that our staff can refer you, if necessary, to the proper page. Technical support is not available on holidays. Contact technical support toll free at 1-888-800-5672. Please remember that technical support is available for service personnel only.

TABLE OF CONTENTS

SPECIFICATIONS

Machine Dimensions 1
Side-Loader Dimensions 5
Steam Booster Heater Dimensions 6
Blower/Dryer Dimensions 7
Operating Parameters 8
Electrical Requirements 10

INSTALLATION

Installation Instructions 13
Curtain Installation 18
Operating Instructions 19
Delime Instructions 21

MAINTENANCE

Troubleshooting 22

PARTS

Control Box Components 24
Overloads 26
Miscellaneous Electrical Components 27
Wash Heater & Heater Shroud Assemblies 28
Pump Suction Assembly 29
Wash Heaters 30
Door Assembly 31
Pre-Wash Door Assembly 32
Door Spring Assembly 33
Plumbing Assembly, Main Water Inlet 34
Wash Tank Fill Assembly 35
Pre-Wash Tank Fill Assemblies 36
Wash Manifold & Arm Assembly 37
Pre-Wash Manifold & Arm Assemblies 39
Rinse Assembly 41
Pawl Bar Assemblies 43
Pawl Bar Bracket Assembly 44
Pawl Bar Gutter Assembly 45
Rack Paddle Assembly 46
Rinse Paddle Assemblies 47
Drain Assembly Parts 48

PARTS (continued)

Covers, Guards & Panels 49
Brackets 50
Miscellaneous Parts 51
Ventilation Cowl Parts 52
Ventilation Cowl for Unhooded Side-Loader 53
Drive Assembly 54
Side-Loaders 56
Side-Loader Drive Linkage 59
Steam Heating Coil Assembly 60
Booster Heater Option (Electric) 61
Booster Heater Option (Steam) 62
Blower/Dryer Option, Machine Assembly 64
Blower/Dryer Option, Control Box 65
Blower/Dryer Option, Blower Assembly 66

SCHEMATICS

Booster Heater, 3-Phase 67
Booster Heater, 1-Phase, 12kW 68
Booster Heater, 1-Phase, 18kW 69
Steam Booster Heater 70
Temperature Board 71
Photocell Table Limit Switch 72
44" 208/230/460V, 60Hz, 3-Phase 73
44" 208/230V, 60Hz, 1-Phase 74
44" Steam, 208/230/460V, 60Hz, 3-Phase 75
44" Steam, 208/230V, 60Hz, 1-Phase 76
66" 208/230/460V, 60Hz, 3-Phase 77
66" 208/230V, 60Hz, 1-Phase 78
66" Steam, 208/230/460V, 60Hz, 3-Phase 79
66" Steam, 208/230V, 60Hz, 1-Phase 80
Blower/Dryer, 240V 81
Blower/Dryer, 480V 82

MAINTENANCE & REPAIR CENTERS

Authorized Service Centers 83

SPECIFICATIONS

MACHINE DIMENSIONS, 44"

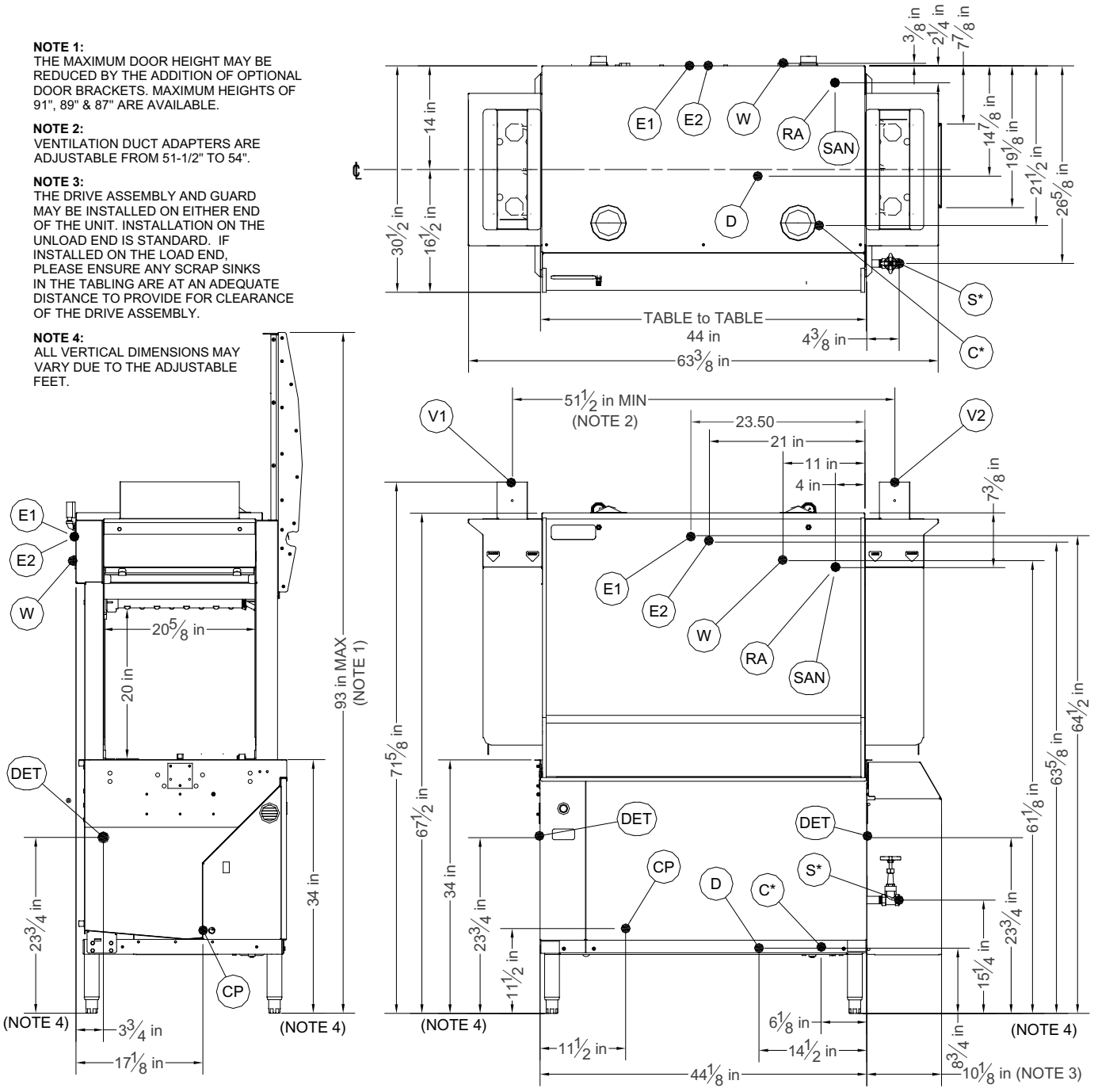
44" LEFT TO RIGHT

NOTE 1:
THE MAXIMUM DOOR HEIGHT MAY BE REDUCED BY THE ADDITION OF OPTIONAL DOOR BRACKETS. MAXIMUM HEIGHTS OF 91", 89" & 87" ARE AVAILABLE.

NOTE 2:
VENTILATION DUCT ADAPTERS ARE ADJUSTABLE FROM 51-1/2" TO 54".

NOTE 3:
THE DRIVE ASSEMBLY AND GUARD MAY BE INSTALLED ON EITHER END OF THE UNIT. INSTALLATION ON THE UNLOAD END IS STANDARD. IF INSTALLED ON THE LOAD END, PLEASE ENSURE ANY SCRAP SINKS IN THE TABLING ARE AT AN ADEQUATE DISTANCE TO PROVIDE FOR CLEARANCE OF THE DRIVE ASSEMBLY.

NOTE 4:
ALL VERTICAL DIMENSIONS MAY VARY DUE TO THE ADJUSTABLE FEET.



**Applies to steam heated units*
*** Chemical sanitizing units only*

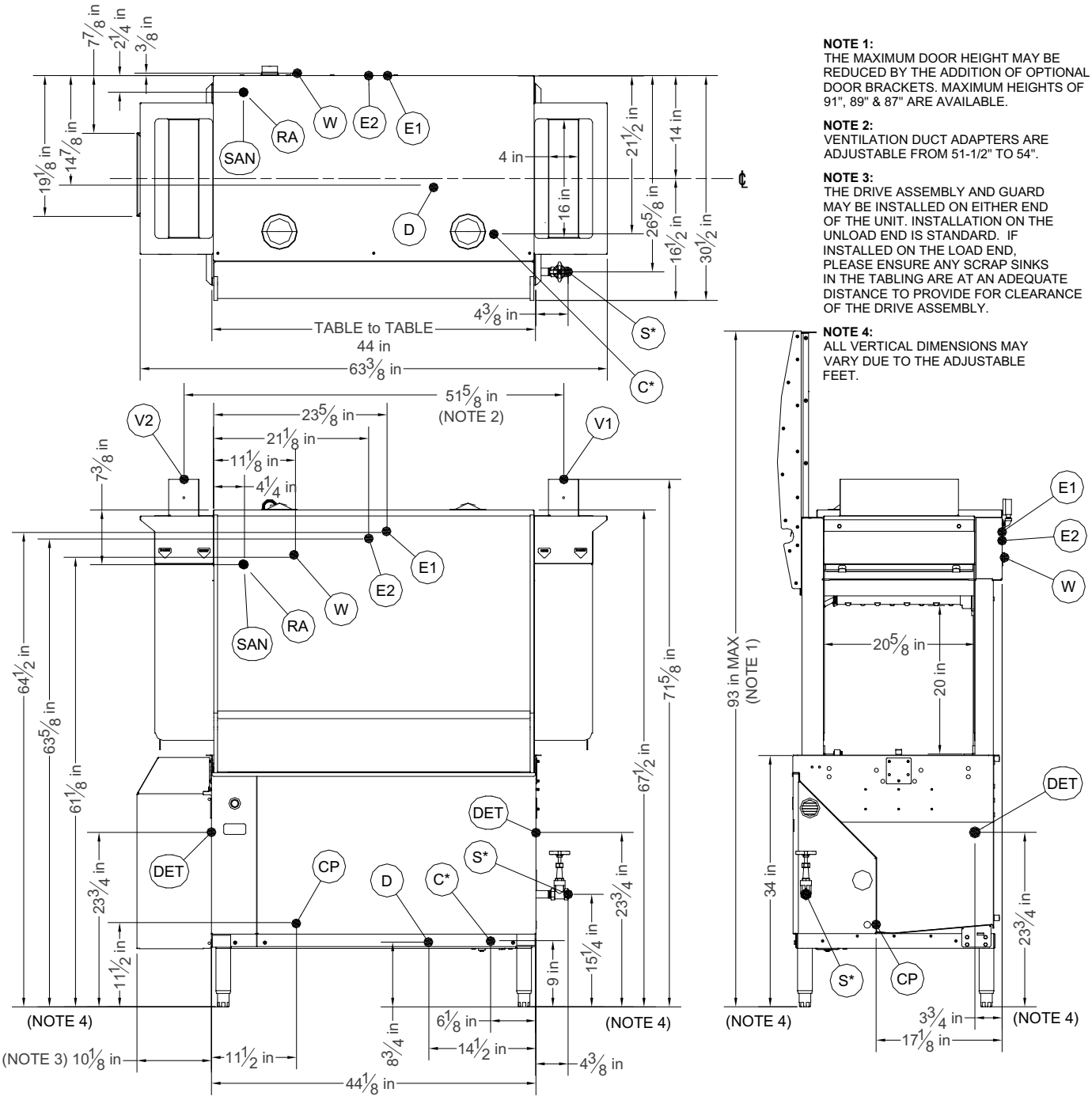
E1	MAIN ELECTRICAL CONNECTION (1.375" DIA HOLE)
E2	BOOSTER HEATER ELECT. CONNECTION (1.375" DIA)
W	MAIN INLET WATER CONNECTION (1/2 NPT-F)
D	DRAIN CONNECTION (1-1/2" NPT-F)
DET	DETERGENT BULKHEAD ACCESS (.875" DIA HOLE)
SAN**	SANITIZER INLET TO RINSE (1/8" NPT-F)

RA	RINSE AID CONNECTION TO RINSE (1/8" NPT-F)
CP	CONDUCTIVITY PROBE ACCESS (.875" DIA HOLE)
S*	STEAM TO WASH TUB HEATING COIL (3/4" NPT-F)
C*	CONDENSATE RETURN (3/4" NPT-F)
VI	VENTILATION DUCT CONN. (LOAD END) 4" x 16" ID
V2	VENTILATION DUCT CONN. (UNLOAD END) 4" x 16" ID

SPECIFICATIONS

MACHINE DIMENSIONS, 44"

44" RIGHT TO LEFT



NOTE 1:
THE MAXIMUM DOOR HEIGHT MAY BE REDUCED BY THE ADDITION OF OPTIONAL DOOR BRACKETS. MAXIMUM HEIGHTS OF 91", 89" & 87" ARE AVAILABLE.

NOTE 2:
VENTILATION DUCT ADAPTERS ARE ADJUSTABLE FROM 51-1/2" TO 54".

NOTE 3:
THE DRIVE ASSEMBLY AND GUARD MAY BE INSTALLED ON EITHER END OF THE UNIT. INSTALLATION ON THE UNLOAD END IS STANDARD. IF INSTALLED ON THE LOAD END, PLEASE ENSURE ANY SCRAP SINKS IN THE TABLING ARE AT AN ADEQUATE DISTANCE TO PROVIDE FOR CLEARANCE OF THE DRIVE ASSEMBLY.

NOTE 4:
ALL VERTICAL DIMENSIONS MAY VARY DUE TO THE ADJUSTABLE FEET.

**Applies to steam heated units*
*** Chemical sanitizing units only*

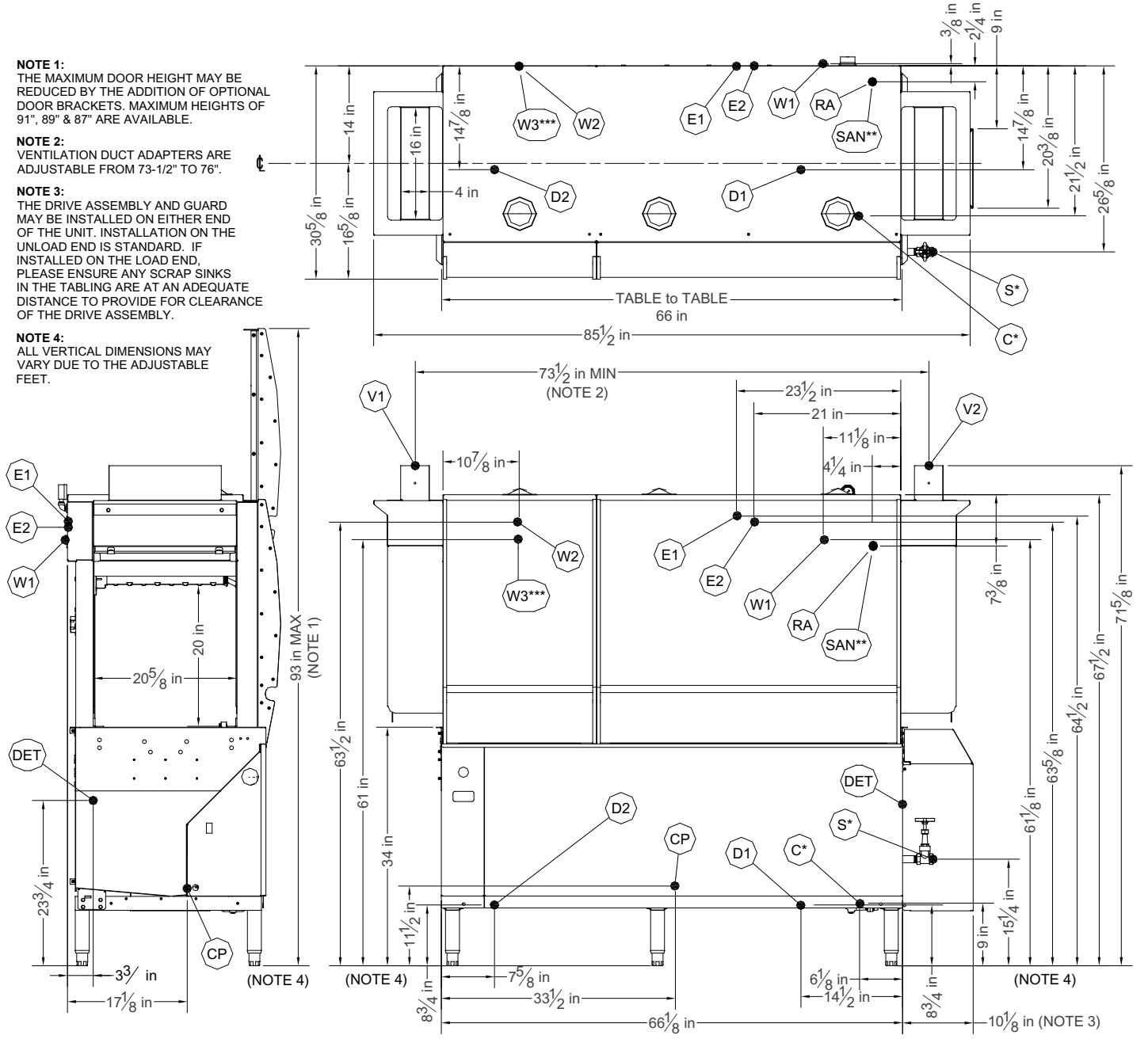
E1	MAIN ELECTRICAL CONNECTION (1.375" DIA HOLE)
E2	BOOSTER HEATER ELECT. CONNECTION (1.375" DIA)
W	MAIN INLET WATER CONNECTION (1/2 NPT-F)
D	DRAIN CONNECTION (1-1/2" NPT-F)
DET	DETERGENT BULKHEAD ACCESS (.875" DIA HOLE)
SAN**	SANITIZER INLET TO RINSE (1/8" NPT-F)

RA	RINSE AID CONNECTION TO RINSE (1/8" NPT-F)
CP	CONDUCTIVITY PROBE ACCESS (.875" DIA HOLE)
S*	STEAM TO WASH TUB HEATING COIL (3/4" NPT-F)
C*	CONDENSATE RETURN (3/4" NPT-F)
VI	VENTILATION DUCT CONN. (LOAD END) 4" x 16" ID
V2	VENTILATION DUCT CONN. (UNLOAD END) 4" x 16" ID

SPECIFICATIONS

MACHINE DIMENSIONS, 66"

66" LEFT TO RIGHT



**Applies to steam heated units*

*** Chemical sanitizing units only*

**** Pre-wash cold water thermostat option only*

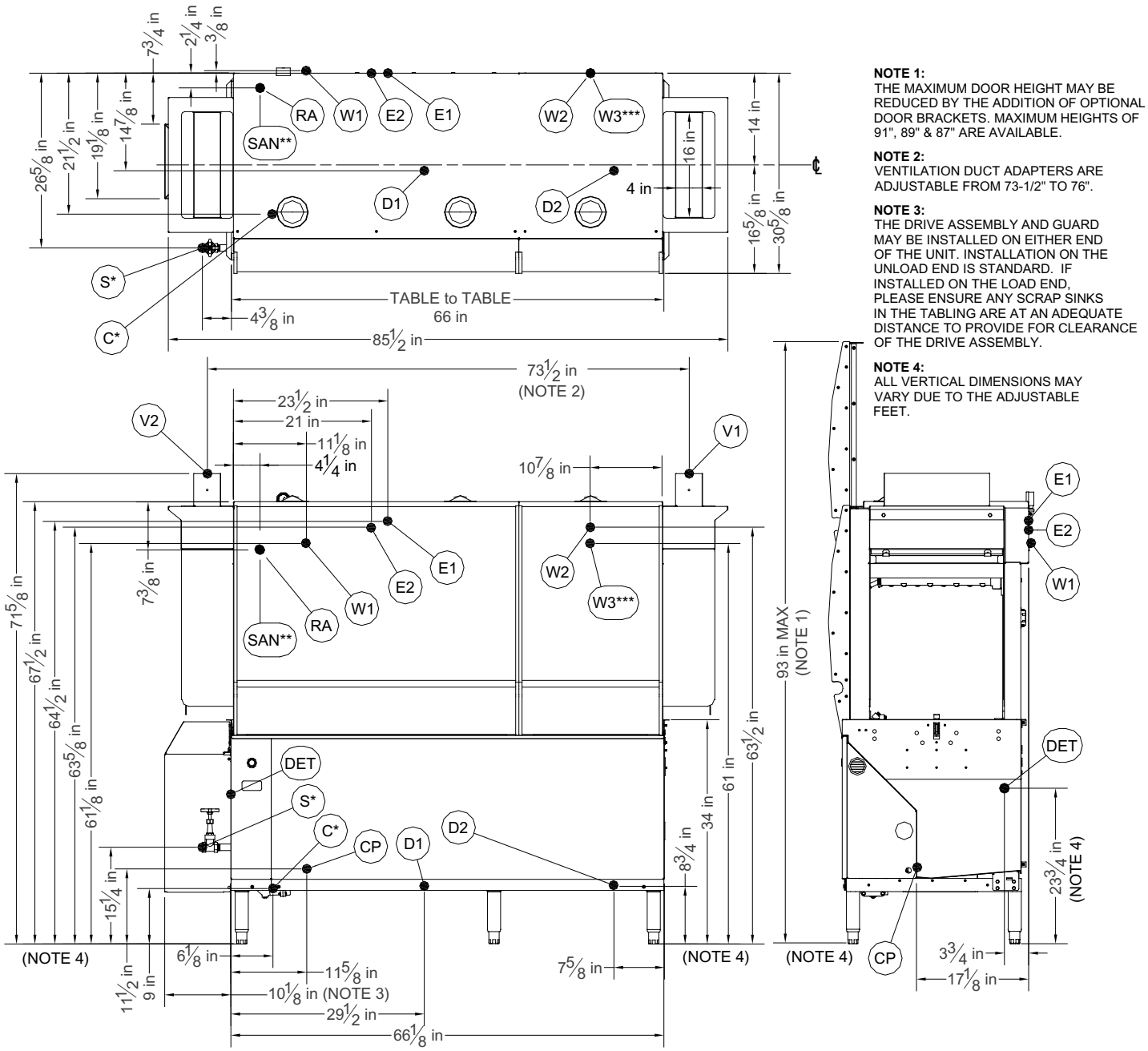
E1	MAIN ELECTRICAL CONNECTION (1.375" DIA HOLE)
E2	BOOSTER HEATER ELECT. CONNECTION (1.375" DIA)
W1	MAIN INLET WATER CONNECTION (1/2 NPT-F)
W2	PRE-WASH INLET WATER CONN. (1/2 NPT-F)
W3***	PRE-WASH COLD WATER CONN. (1/2 NPT-F)
D1	DRAIN CONNECTION, WASH (1-1/2" NPT-F)
D2	DRAIN CONNECTION, PRE-WASH (1-1/2" NPT-F)
DET	DETERGENT BULKHEAD ACCESS (.875" DIA HOLE)

SAN**	SANITIZER INLET TO RINSE (1/8" NPT-F)
RA	RINSE AID CONNECTION TO RINSE (1/8" NPT-F)
CP	CONDUCTIVITY PROBE ACCESS (.875" DIA HOLE)
S*	STEAM TO WASH TUB HEATING COIL (3/4" NPT-F)
C*	CONDENSATE RETURN (3/4" NPT-F)
VI	VENTILATION DUCT CONN. (LOAD END) 4" x 16" ID
V2	VENTILATION DUCT CONN. (UNLOAD END) 4" x 16" ID

SPECIFICATIONS

MACHINE DIMENSIONS, 66"

66" RIGHT TO LEFT



NOTE 1:
THE MAXIMUM DOOR HEIGHT MAY BE REDUCED BY THE ADDITION OF OPTIONAL DOOR BRACKETS. MAXIMUM HEIGHTS OF 91", 89" & 87" ARE AVAILABLE.

NOTE 2:
VENTILATION DUCT ADAPTERS ARE ADJUSTABLE FROM 73-1/2" TO 76".

NOTE 3:
THE DRIVE ASSEMBLY AND GUARD MAY BE INSTALLED ON EITHER END OF THE UNIT. INSTALLATION ON THE UNLOAD END IS STANDARD. IF INSTALLED ON THE LOAD END, PLEASE ENSURE ANY SCRAP SINKS IN THE TABLING ARE AT AN ADEQUATE DISTANCE TO PROVIDE FOR CLEARANCE OF THE DRIVE ASSEMBLY.

NOTE 4:
ALL VERTICAL DIMENSIONS MAY VARY DUE TO THE ADJUSTABLE FEET.

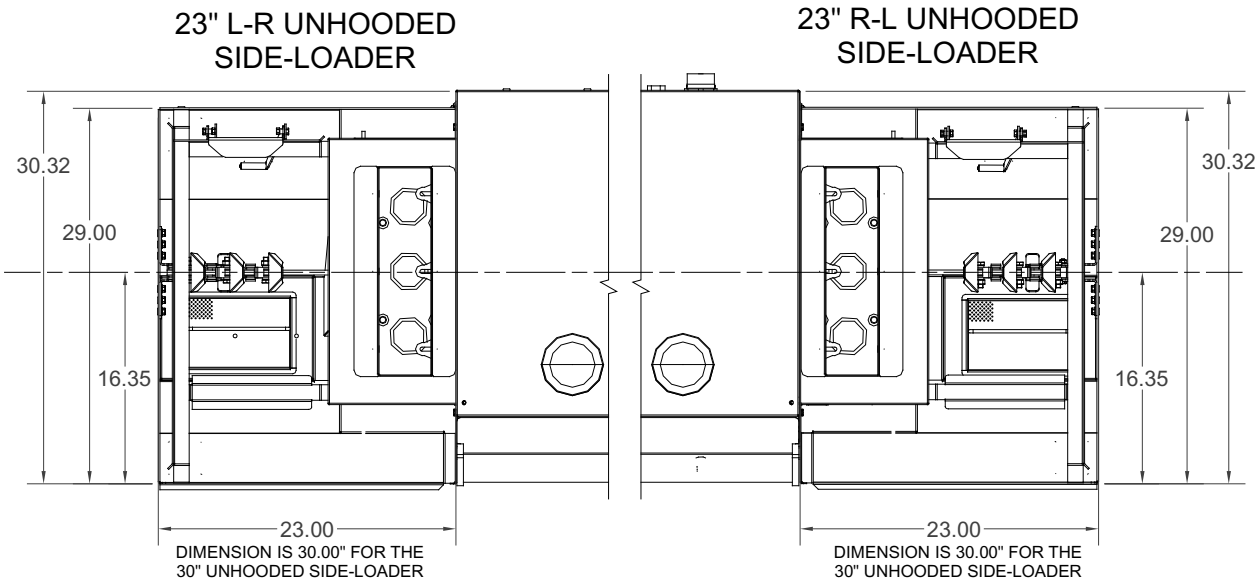
**Applies to steam heated units*
*** Chemical sanitizing units only*
**** Pre-wash cold water thermostat option only*

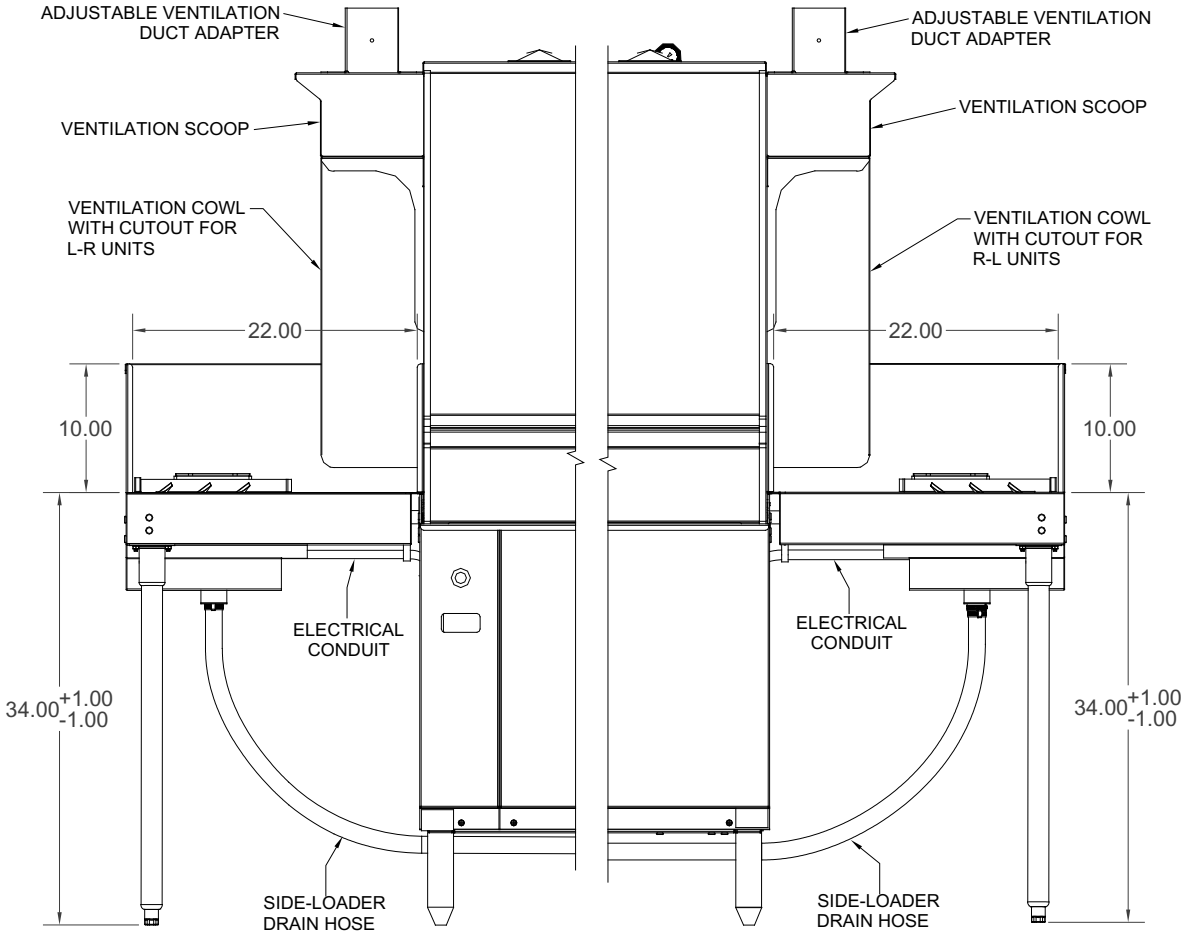
E1	MAIN ELECTRICAL CONNECTION (1.375" DIA HOLE)
E2	BOOSTER HEATER ELECT. CONNECTION (1.375" DIA)
W1	MAIN INLET WATER CONNECTION (1/2 NPT-F)
W2	PRE-WASH INLET WATER CONN. (1/2 NPT-F)
W3***	PRE-WASH COLD WATER CONN. (1/2 NPT-F)
D1	DRAIN CONNECTION, WASH (1-1/2" NPT-F)
D2	DRAIN CONNECTION, PRE-WASH (1-1/2" NPT-F)
DET	DETERGENT BULKHEAD ACCESS (.875" DIA HOLE)

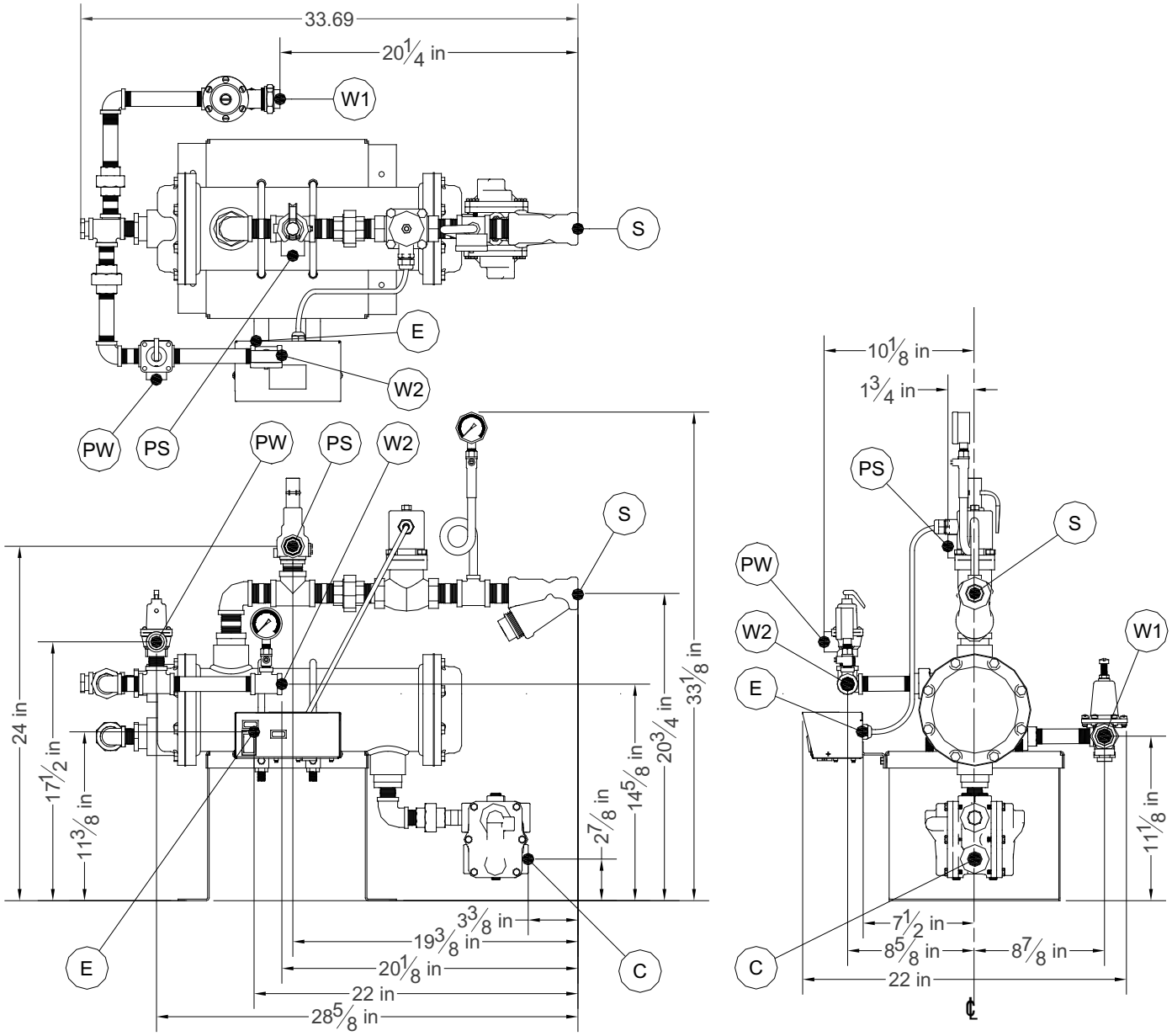
SAN**	SANITIZER INLET TO RINSE (1/8" NPT-F)
RA	RINSE AID CONNECTION TO RINSE (1/8" NPT-F)
CP	CONDUCTIVITY PROBE ACCESS (.875" DIA HOLE)
S*	STEAM TO WASH TUB HEATING COIL (3/4" NPT-F)
C*	CONDENSATE RETURN (3/4" NPT-F)
VI	VENTILATION DUCT CONN. (LOAD END) 4" x 16" ID
V2	VENTILATION DUCT CONN. (UNLOAD END) 4" x 16" ID

SPECIFICATIONS

SIDE-LOADER DIMENSIONS







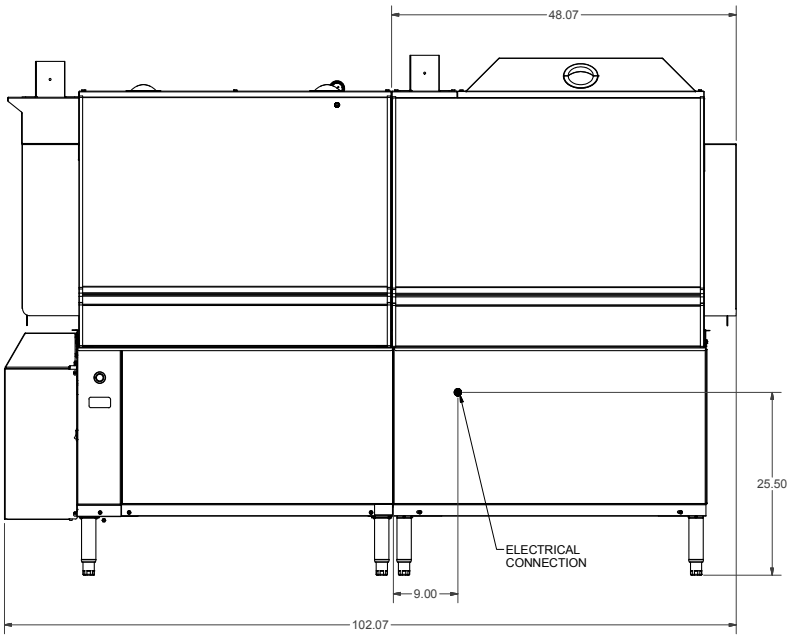
E	MAIN ELECTRICAL CONNECTION (7/8" DIA HOLE)
W1	MAIN INLET WATER CONNECTION (3/4" NPT-F)
W2	WATER OUTLET CONNECTION (3/4" NPT-F)
PW	WATER PRESSURE RELIEF OUTLET (3/4" NPT-F)

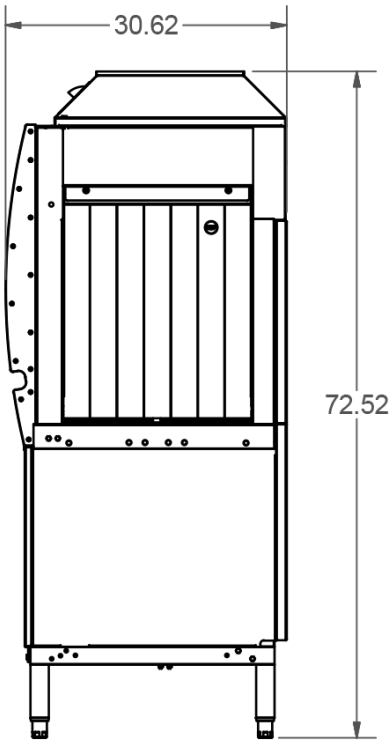
PS	STEAM PRESSURE RELIEF OUTLET (1" NPT-F)
S	STEAM SUPPLY TO BOOSTER (1" NPT-F)
C	STEAM CONDENSATE CONNECTION (3/4" NPT-F)

SPECIFICATIONS

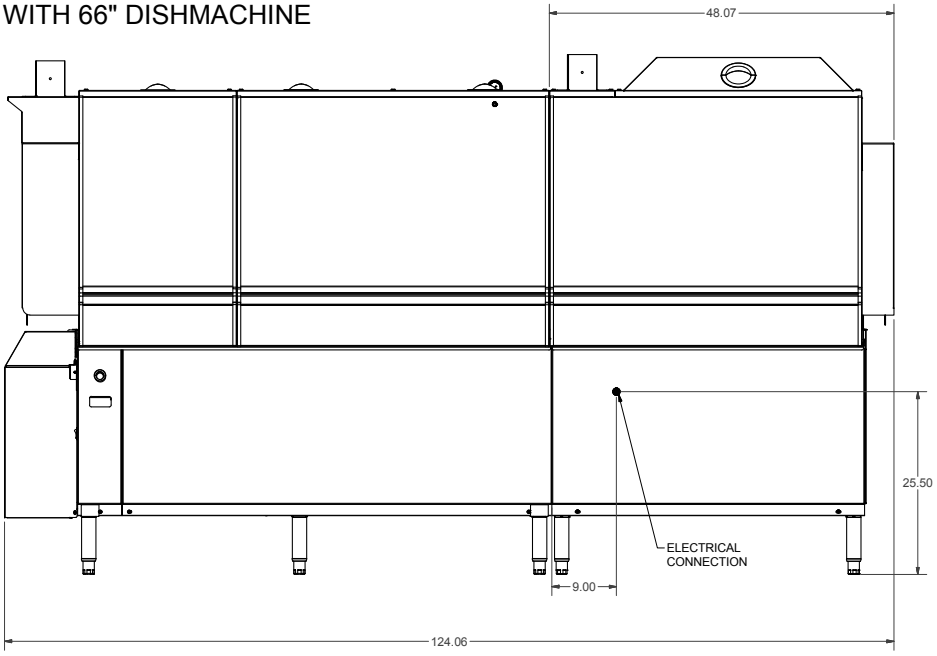
BLOWER/DRYER OPTION: MACHINE DIMENSIONS

WITH 44" DISHMACHINE





WITH 66" DISHMACHINE



Machine Dimensions:	
Height	72.5"
Width	48"
Depth	30.625"
Wall Clearance:	**5'**
Height	19.75"
Width	21"
Shipping Weight:	**750lbs.**
Shipping Size:	
Length	77"
Depth	41"
Height	89"

Model Designation:	**44"**	**66"**	**44" STEAM**	**66" STEAM**
Operating Capacity:				
Racks per Hour	218	218	218	218
Dishes per Hour	3488	3488	3488	3488
Glasses per Hour	7848	7848	7848	7848
Tank Capacity (Gallons):				
Wash Tank	35.6	35.6	35.6	35.6
Pre-Wash Tank	N/A	15.8	N/A	15.8
Electrical Loads (as applicable):				
Wash Motor HP	3.0	3.0	3.0	3.0
Drive Motor HP	0.25	0.25	0.25	0.25
Pre-Wash Motor HP	N/A	2.0	N/A	2.0
Wash Heater kW	15 or 18	18	N/A	N/A

NOTE: Always refer to the machine data plate for specific electrical and water requirements. The material provided on this page is for reference only and is subject to change without notice.

SPECIFICATIONS

OPERATING PARAMETERS

Model Designation:	44"	66"	44" STEAM	66" STEAM
HOT WATER SANITIZING				
Water Temperatures (Fahrenheit):				
Pre-Wash Temperature (recommended)	N/A	110-140	N/A	110-140
Minimum Wash Temperature	160	160	160	160
Incoming Rinse Temperature	180	180	180	180
Incoming Water Temperature				
12kW Booster	140	140	N/A	N/A
18kW Booster	110	110	N/A	N/A
No Booster	180	180	180	180
CHEMICAL SANITIZING				
Water Temperatures (Fahrenheit):				
Pre-Wash Temperature (recommended)	N/A	110-140	N/A	110-140
Minimum Wash Temperature	120	120	120	120
Minimum Rinse Temperature	120	120	120	120
Incoming Water Temperature				
12kW Booster	80	80	N/A	N/A
18kW Booster	50	50	N/A	N/A
No Booster	120	120	120	120
Other Water Requirements:				
Water Flow Pressure (PSIG)	15	12	15	15
Flow Rate Minimum (GPM)	1.27	1.18	1.27	1.18
Water Line Size (NPT)	1/2"	1/2"	1/2"	1/2"
Drain Line Size (NPT)	1-1/2"	1-1/2"	1-1/2"	1-1/2"
Steam Requirements:				
Steam Line for Wash Tank (NPT)	N/A	N/A	3/4"	3/4"
Steam Flow Pressure (PSIG)	N/A	N/A	10-20	10-20
Consumption @ 15 PSIG (lbm/hr)	N/A	N/A	60	60

All electrical ratings provided in this manual are for reference only. Always refer to the machine data plate to get the exact electrical information for this machine. **All electrical work performed on machines should be done in accordance with applicable local, state, territorial and national codes**. Work should only be performed by qualified electricians and authorized service agents. A list of authorized Service Agencies is located in the back of this manual.

Note that all electrical wiring used in the dishmachine must be rated, at a minimum, for 100C (212F). Furthermore, use copper conductors only.

Where applicable, heating element amperage draws have been adjusted for the assumed input voltage. Jackson assumes incoming voltages will be either 208, 230 or 460 volts. Some of the heating elements used in our machines are actually rated for other voltages, such as 240 or 480 volts. Always verify the amperage draw of the machine in operation when sizing circuit protection.

If the machine is equipped with the optional rinse heater, note the rinse heater has its own electrical connection and therefore requires a separate service. Amperage loads for motors and heaters are called out on the machine data plate for the installation/service technician.

The electrical configurations of the machines are as follows:

Available Electrical Characteristics:

- 208 volt, 60 Hz, single phase
- 230 volt, 60 Hz, single phase
- 208 volt, 60Hz, three phase
- 230 volt, 60 Hz, three phase
- 460 volt, 60 Hz, three phase

Available Wash Tank Heaters:

- 15kW (standard for CREW 44)
- 18kW (optional for CREW 44, standard for CREW 66)

Available Electrical Characteristics:

- None (standard)
- 12kW (40F rise in temperature)
- 18kW (70F rise in temperature)

SPECIFICATIONS

ELECTRICAL REQUIREMENTS

44" with 15kW Wash Heater

Volts	Phase	Freq	Wash Motor Amps	Drive Motor Amps	Wash Heater Amps	FLA	MCA	MOP
208	1	60	10.0	1.8	72.1	83.9	86.4	96.4
230	1	60	10.0	1.8	*59.9	71.7	74.2	84.2
240	1	60	10.0	1.8	62.5	74.3	76.8	86.8
208	3	60	8.6	1.1	41.6	51.3	53.5	62.1
230	3	60	8.4	1.1	*34.6	44.1	46.2	54.6
240	3	60	8.4	1.1	36.1	45.6	47.7	56.1
460	3	60	4.2	0.6	**17.3	22.1	23.2	27.4
480	3	60	4.2	0.6	18.1	22.9	24.0	28.2

44" with 18kW Wash Heater

Volts	Phase	Freq	Wash Motor Amps	Drive Motor Amps	Wash Heater Amps	FLA	MCA	MOP
208	1	60	10.0	1.8	86.5	98.3	100.8	110.8
230	1	60	10.0	1.8	*71.9	83.7	86.2	96.2
240	1	60	10.0	1.8	75.0	86.8	89.3	99.3
208	3	60	8.6	1.1	50.0	59.7	61.9	70.5
230	3	60	8.4	1.1	*41.5	51.0	53.1	61.5
240	3	60	8.4	1.1	43.4	52.9	55.0	63.4
460	3	60	4.2	0.6	**20.8	25.6	26.7	30.9
480	3	60	4.2	0.6	21.7	26.5	27.6	31.8

44" Steam

Volts	Phase	Freq	Wash Motor Amps	Drive Motor Amps	FLA	MCA	MOP
208	1	60	10.0	1.8	11.8	14.3	24.3
230	1	60	10.0	1.8	11.8	14.3	24.3
208	3	60	8.6	1.1	9.7	11.9	20.5
230	3	60	8.4	1.1	9.5	11.6	20.0
460	3	60	4.2	0.6	4.8	5.9	10.1

** Denotes 240 volt heating elements that have been down-rated when 230 volts is applied.*

*** Denotes 480 volt heating elements that have been down-rated when 460 volts is applied.*

66" with 18kW Wash Heater

Volts	Phase	Freq	Pre-Wash Motor Amps	Wash Motor Amps	Drive Motor Amps	Wash Heater Amps	FLA	MCA	MOP
208	1	60	10.2	10.0	1.8	86.5	108.5	111.1	121.3
230	1	60	9.4	10.0	1.8	*71.9	93.1	95.6	105.6
240	1	60	9.4	10.0	1.8	75.0	96.2	98.7	108.7
208	3	60	6.8	8.6	1.1	50.0	66.5	68.7	77.3
230	3	60	6.4	8.4	1.1	*41.5	57.47	59.5	67.9
240	3	60	6.4	8.4	1.1	43.4	59.3	61.4	69.8
460	3	60	3.2	4.2	0.6	**20.8	28.8	29.9	34.1
480	3	60	3.2	4.2	0.6	21.7	29.7	30.8	35.0

66" Steam

Volts	Phase	Freq	Pre-Wash Motor Amps	Wash Motor Amps	Drive Motor Amps	FLA	MCA	MOP
208	1	60	10.2	10.0	1.8	22.0	24.6	34.8
230	1	60	9.4	10.0	1.8	21.2	23.7	33.7
208	3	60	6.8	8.6	1.1	16.5	18.7	27.3
230	3	60	6.4	8.4	1.1	15.9	18.0	26.4
460	3	60	3.2	4.2	0.6	8.0	9.1	13.3

** Denotes 240 volt heating elements that have been down-rated when 230 volts is applied.*
*** Denotes 480 volt heating elements that have been down-rated when 460 volts is applied.*

40°F Rise – 12kW Booster

Volts	Phase	Freq	Rinse Heater Amps	FLA
208	1	60	57.7	57.7
230	1	60	47.9	47.9
208	3	60	33.3	33.3
230	3	60	27.7	27.7
460	3	60	13.8	13.8

40°F Rise – 12kW Booster

Volts	Phase	Freq	Rinse Heater Amps	FLA
208	1	60	82.7	82.7
230	1	60	71.9	71.9
208	3	60	47.7	47.7
230	3	60	41.5	41.5
460	3	60	20.7	20.7

Note: On the 208 volt machines, the rinse heater is actually rated at 17.2kW.

Blower/Dryer

VOLTS	PHASE	FREQ	AMPS
208	3	60	32.2
230	3	60	22.9
460	3	60	13.4

INSTALLATION

INSTRUCTIONS

VISUAL INSPECTION: Before installing the unit, check the container and the machine for damage. A damaged container may be an indication there is possible damage to the product. If there is any type of damage to both the container and the unit, DO NOT THROW AWAY THE CONTAINER. The dishmachine has been previously inspected at the factory and is expected to arrive in new, undamaged condition. However, rough handling by carriers or others may result in damage to the unit while it is in transit. If such a situation occurs, DO NOT RETURN THE UNIT TO THE MANUFACTURER. Instead, contact the carrier and ask them to send a representative to the site to inspect the damage. Request that an inspection report be completed. Contact the carrier within 48 hours of receiving the machine in order to report possible freight damage and the dealer from whom the unit was purchased.

UNPACKING THE MACHINE: The machine should be unboxed and removed from the pallet prior to installing. Remove the wooden lift beams and their associated brackets after the unit has been positioned. Open the front door and remove all of the materials from the inside. Once unpacked, verify there are no missing parts. If a part is missing, contact the manufacturer immediately.

LEVEL THE DISHMACHINE: The dishmachine is designed to operate while level. This is important to prevent any damage to the machine during operation and to ensure the best results possible. The unit comes equipped with adjustable bullet feet, which can be turned using a pair of pliers. Verify the unit is level from front to back and side to side prior to making any electrical or plumbing connections.

PLUMBING THE MACHINE: All plumbing connections must be made to adhere to local, state, territorial and national codes. The installing plumber is responsible for ensuring the incoming water lines are flushed of debris prior to connecting to the machine. Note that chips and materials from cutting processes can become lodged in the solenoid valves and prevent them from opening or closing. Any valves that are found to be fouled or defective because of foreign matter left in the water line, and any subsequent water damage, are not the responsibility of the manufacturer.

Water hardness should be a maximum of 6 grains per gallon. Hard water should be treated prior to being used by the machine. Iron in the water line can cause staining. A filter designed to remove iron from the water supply is highly recommended for supplies in excess of 0.1 ppm.

This dishmachine comes with a Water Pressure Regulating Valve. The unit utilizes a flow pressure of 15 PSI for the incoming water line. Do not confuse static pressure with flow pressure. Static pressure occurs when there is no flow and the valves are closed. Flow pressure occurs when water is running into the machine. The WPRV should be adjusted to the proper flow pressure at a minimum.

The water supply line shall be 1/2" NPT minimum and must be able to provide water at the minimum temperature indicated on the machine data plate.

It is recommended that a shut-off valve be installed to allow isolating the dishmachine from the water system in the event that maintenance or other activities are required. Also, it is suggested that a shock absorber (**not supplied** with dishmachine) be installed on the incoming water line. This prevents water hammer (hydraulic shock)—induced by the solenoid valve as it operates—from causing damage to the equipment.

CONNECTING THE DRAIN LINE: The drain for the unit is a gravity discharge drain. All piping to the machine drain must be a minimum 1-1/2” NPT AND SHALL NOT BE REDUCED. There must also be an air gap between the machine drain line and the floor sink or drain. If a grease trap is required by code, it should have a flow capacity of 5 gallons. 44" units have one drain connection point, 66" units have two.

STEAM LINE CONNECTIONS: Some machines covered in this manual are designed to use low pressure steam as a source of heat for the wash tank. Those machines come with lines by which an outside source of steam (i.e. steam booster) is connected. Connect all steam lines from the booster to the machine in accordance with the booster manufacturer’s instructions. Ensure that all applicable codes and regulations are adhered to. See the machine data plate for information related to steam flow requirements.

ELECTRICAL POWER CONNECTIONS: All electrical connections are to be made in accordance with applicable portions of local, state, territorial and national codes.

DISCONNECT ELECTRICAL POWER SUPPLIES AND TAG OUT IN ACCORDANCE WITH APPROPRIATE PROCEDURES AND CODES AT THE DISCONNECT SWITCH TO INDICATE THE CIRCUIT IS BEING SERVICED.

This manual provides reference information regarding electrical requirements and loads, but that information may change without notice. Always refer to the machine data plate for voltage requirements, machine voltage, total amperage load and serial number. If a data plate has been damaged and cannot be read, contact the manufacturer.

The main power terminal blocks (for the dishmachine and for the rinse booster heater, if applicable) are located at the top of the machine. Remove the top cover to access these connections. Route incoming power lines within conduit that will connect via fittings to the pre-punched holes in the back of the control box. Install power and ground wires to lugs as indicated by the appropriate decals in the control box. Use copper conductors only. Use of an anti-oxidation agent is permissible on the power connections. Tighten all connections.

Verify the incoming voltage matches the voltage indicated on the decal next to the incoming power pre-punched hole.

Please note the dishmachine has a separate power connection from the rinse booster heater and the circuit protection requirements are different for each. Refer to the machine data plate for information on minimum circuit protection.

DISHMACHINE VENTILATION: The dishmachine should be located into an adequate exhaust hood or ventilation system with provisions for venting. This is essential to permit efficient removal of the condensation exhaust. Ensure the exhaust system is acceptable in accordance with applicable codes and standards.

Note: Any damage that is caused by steam and/or moisture due to improper ventilation is NOT covered under the warranty.

The dishmachine has the following ventilation requirements:

- **Load End: 200 CFM**
- **Unload End: 200 CFM**

The exhaust system must be sized to handle this volume for the dishmachine to operate in the manner it was designed.

THERMOSTATS: The thermostats on this unit have been set at the factory for the wash tank and should only be adjusted by an authorized service agent.

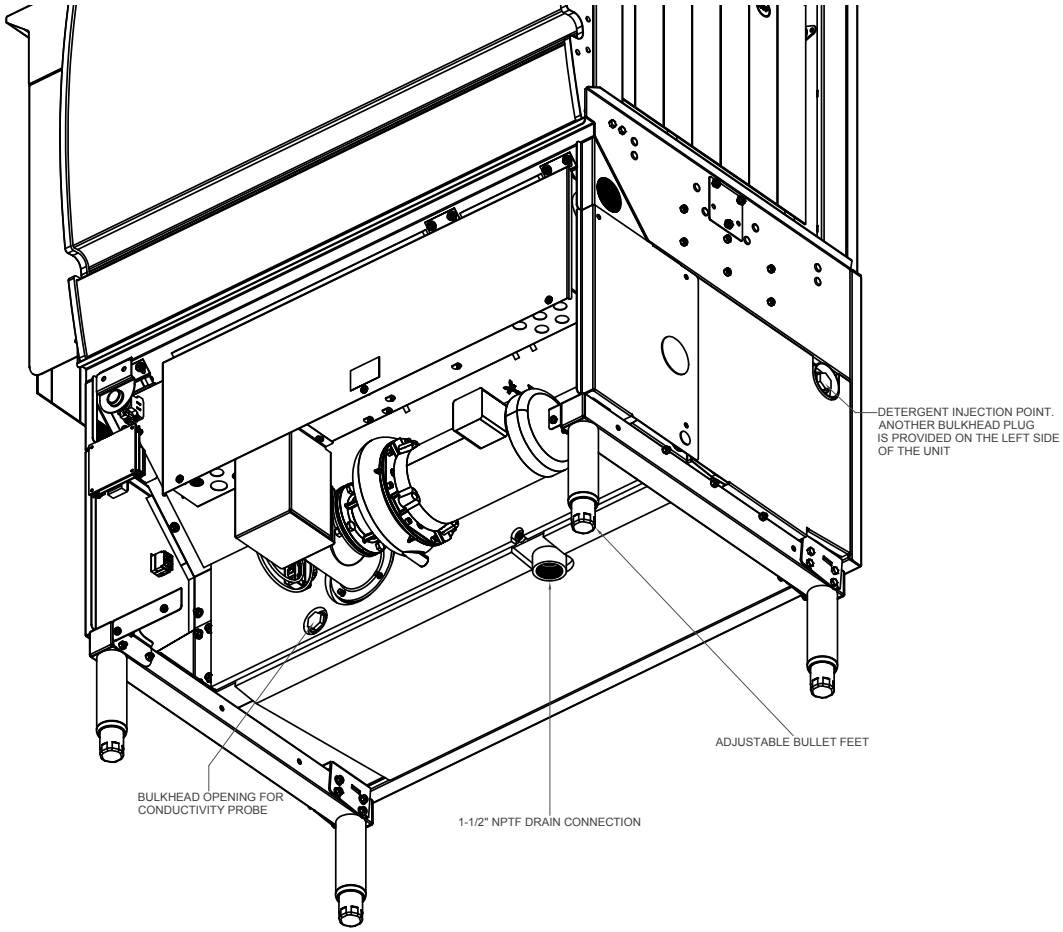
CHEMICAL FEEDER EQUIPMENT: This dishmachine DOES NOT COME WITH AN INTEGRAL CHEMICAL SUPPLY/ FEEDER SYSTEM. Connect the unit to a third party chemical dispenser that meets the requirements of NSF Standard 29 for the machine to operate correctly.

Contact a chemical supplier about connecting a dispenser to the dishmachine. Chemical dispensers must be set for the type and concentration of chemicals being used.

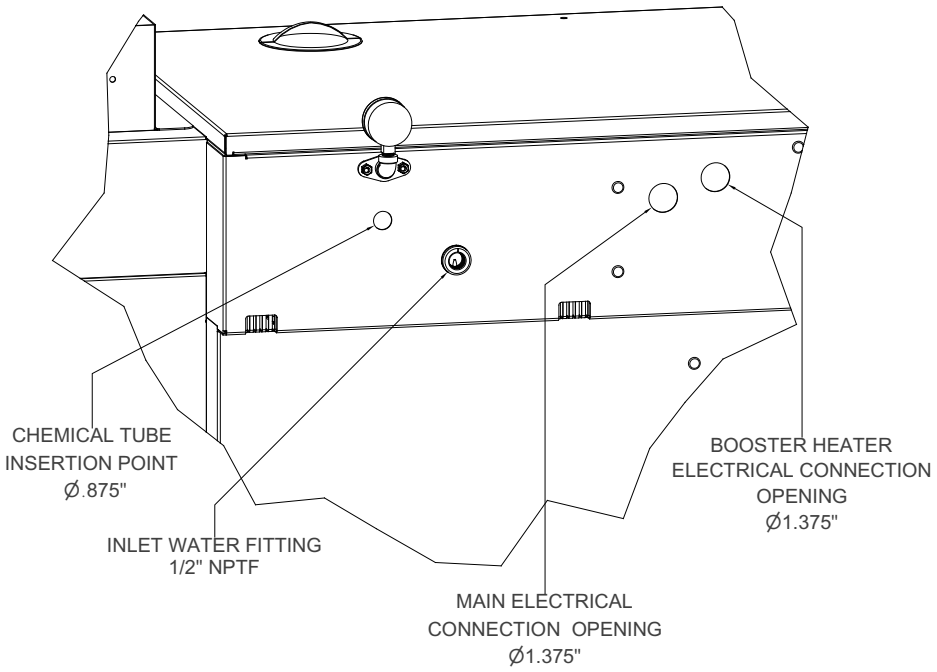
Detergent usage and water hardness are two factors that contribute greatly to how efficiently the dishmachine will operate. Using the proper amount of detergent can be a source of substantial savings. A qualified water treatment specialist can explain what is needed to gain the maximum efficiency from detergent.

The dishmachine can operate in either hot water sanitizing mode or chemical sanitizing mode. The mode of the machine is marked above the machine's data plate.

If the unit is operated in chemical sanitizing mode, ensure an appropriate chlorine-based sanitizer is used in the final rinse line.

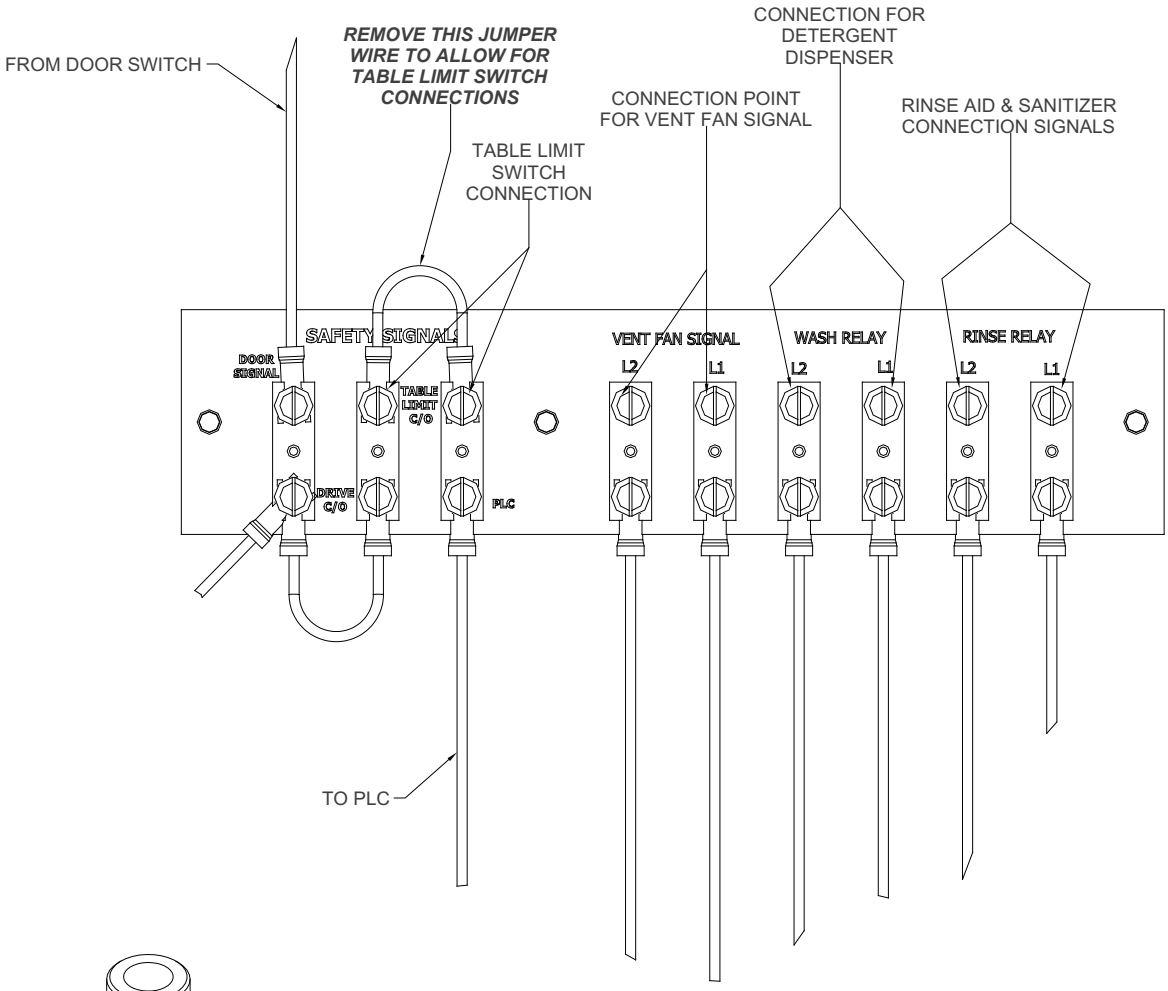


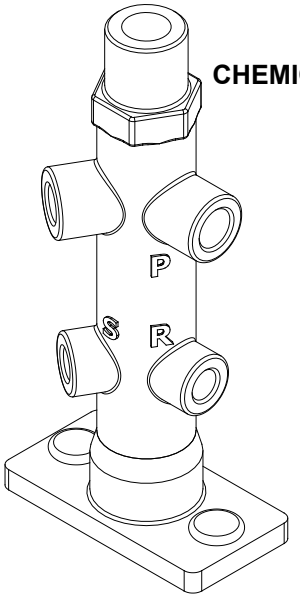
SHOWN FROM REAR OF **LEFT TO RIGHT** UNIT.
RIGHT TO LEFT UNIT IS MIRRORED



ELECTRICAL CONNECTION POINTS FOR TABLE LIMIT SWITCH, VENTILATION FAN SIGNAL & CHEMICAL DISPENSING SYSTEMS

SIGNAL BOARD IS LOCATED IN THE MAIN CONTROL BOX BEHIND THE LOWER DRESS PANEL





CHEMICAL DISPENSER TUBE CONNECTION POINTS TO RINSE INJECTOR

P: PRESSURE SWITCH (1/4" NPT)

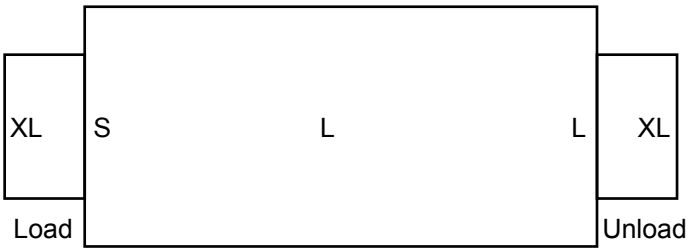
S: SANITIZER (1/8" NPT)

R: RINSE AID (1/8" NPT)

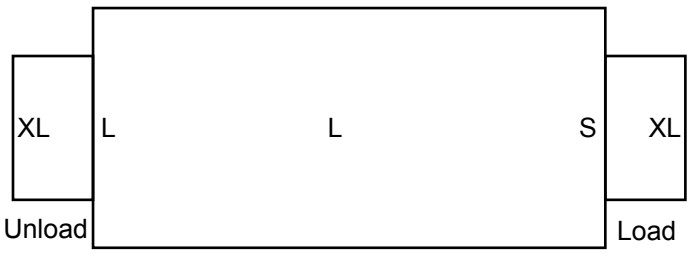
The unit will have decals marking the locations for the placement of curtains inside the machine, starting at the load end and ending at the unload end. The illustrations below indicate the size of the curtain to be placed on the curtain hooks provided. If any curtain components are missing, these must be obtained and installed in order for the unit to work correctly. Curtains are used to control air currents inside the unit and assist in maintaining the heat necessary to keep energy costs down.

DETERMINING CONVEYER DIRECTION: The dishmachine will be configured for either Left to Right or Right to Left operation. Direction is from the Load End to the Unload End, as shown below.

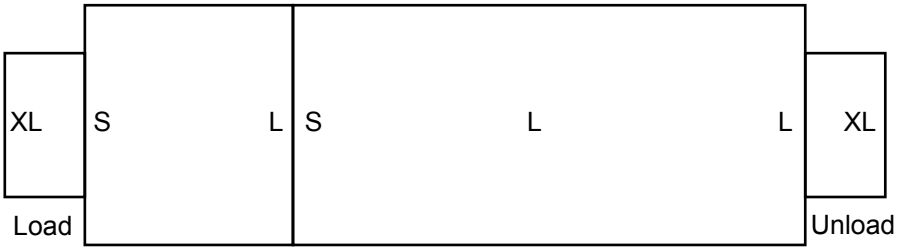
44" Left to Right



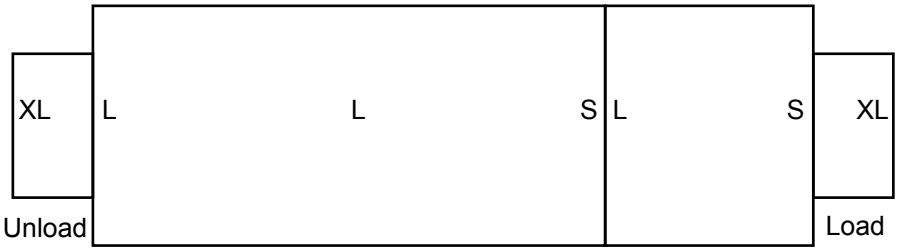
44" Right to Left



66" Left to Right



66" Right to Left



IMPORTANCE OF PROPER CURTAIN PLACEMENT: The curtains inside the dishmachine must be installed properly for the machine to operate correctly. Note the approximate locations for each type of curtain in the above illustrations. **S=Short, L=Long & XL=Extra Long.** See the chart below for actual curtain lengths and part numbers. Note the XL Curtain and Curtain Rod difference for the Load End when a side-loader option is present.

Legend	Length	Part #
S	12"	08415-131-73-44
L	19"	08415-002-14-41
XL	24.25"	08415-002-47-37
Curtain Rod	20.50"	05700-003-77-52

Side-Loader Option	Length	Part #
XL (Load End Only)	24.25""	08415-003-84-88
Curtain Rod (Load End Only)		05700-003-84-57

INSTALLATION

OPERATING INSTRUCTIONS

PREPARATION: Before proceeding with the start-up of the unit, verify the following:

- The drain stopper is installed.
- The strainers are installed.
- The pawl bar is installed and secure.
- The actuator switches move with relative freedom and do not bind.
- The curtains are installed correctly.

POWER UP: To place the unit in standby, press the START button on the front of the machine.

- The unit will automatically determine if there is proper water level in the wash tank. If not, the unit will begin to fill until the appropriate level is reached.
- If the wash tank temperature is not at the minimum level for the mode of operation, the wash heater will energize. Refer to the machine data plate for a better understanding of the minimum temperatures needed to operate the unit correctly. It may take several minutes for the wash tank to heat up, depending on the initial temperature of the water.
- If the machine is equipped with a rinse booster option, the booster will turn on when the unit turns on.
- If the machine is heated with a steam booster, the steam booster must be turned on in accordance with the manufacturer's instructions.
- Do not attempt to start the unit until:
  1. The unit stops filling. **2**. The unit has reached the appropriate wash tank temperature.

FIRST RACK: The first rack of ware that is placed into the unit will typically reduce the temperature of the wash tank, and the first rack may need to run through the unit again. This process may be necessary any time the unit has not been operated for an extended period of time, although this is dependent on the type of ware being used, its temperature and the ambient temperature of the kitchen area. To ensure proper operation, always observe the temperatures of the wash and rinse when first starting the unit.

WARE PREPARATION: Proper preparation of ware is essential for the smooth, efficient operation of this dishmachine. Any ware placed inside the machine should have all solid food waste and scraps removed. It is recommended that ware also be sprayed down prior to entry into the dishmachine.

Place cups and glasses upside down in racks so they do not hold water during the cycle. Presoak flatware in warm water to assist in removing food. Load plates and saucers in the same direction, with the food surface facing the unload end of the machine.

WASHING A RACK OF WARE: This dishmachine is designed to wash ware that is placed in a rack. Materials should not be placed inside the unit unless they are properly secured into a dish rack.

To start the cycle, gently push the rack into the unit on the load end. Once the wash actuator has moved sufficiently, the unit will automatically begin to convey the dish rack through the unit. The entire cycle is automatic.

OPERATIONAL INSPECTIONS: It is recommended that operators periodically review the following items while the machine is operating. All of these items are important to operating the machine in an efficient manner.

- Review wash and rinse temperatures and compare to the minimums required by the data plate. Low temperatures can be an indication of a faulty thermostat, a thermostat that needs adjustment or some other condition that needs to be addressed.
- Verify the pan strainers are not becoming clogged. Keeping these free of soil and debris allows for much better flow of water through the machine and prevents any sort of redeposit issues.
- Water pressure: The dishmachine is designed to run at a minimum of 15 PSIG; if it is any lower there will not be enough rinse water to properly remove detergent from the ware.
- Wash and rinse arm nozzles should be free of debris. Open nozzles are essential to the operation of the dishmachine.

SHUTDOWN: To shut the unit down, press the START button on the front of the machine. To drain the machine, open the front door and pull up on the drain release inside the unit. If the machine is equipped with a steam booster, shut it down in accordance with its manufacturer's instructions.

CLEANING: It is recommended that the unit be cleaned at least once every 24 hours or at the end of the day. Cleaning assists in maintaining the efficient operation of the unit by removing soil and debris that might otherwise become trapped in nozzles or deposited onto ware.

- Curtains should be removed and scrubbed with mild detergent and a brush and allowed to air dry.
- Strainers should be removed and debris scooped out. Do not hit strainers to remove debris; this can cause them to warp and not seat correctly. Rinsing the strainer under water should remove the rest of any debris trapped in the part.
- Wash arms can be removed using a 7/16" driver, however the dishmachine is designed so that the wash arms are self-cleaning. Operators have the ability to flush the arms by removing the plastic end caps and running a rack through the unit. This should only be done as a cleaning function with an empty rack and a tub that is filled with water.
- The internal chamber can be cleaned with a mild detergent and dishrag. The strainers and the pawl bar should be removed to provide as much room as possible.
- The outside of the unit should be cleaned with a standard countertop or general cleaner. Do not attempt to clean inside any compartments, boxes or chambers that are secured with a cover. These normally contain live electrical components.
- DO NOT CLEAN THE UNIT WITH ANY TYPE OF METALLIC SCRUBBING SPONGE.

INSTALLATION

DELIME INSTRUCTIONS

To proceed with the delime operation, fill the dishmachine with the correct amount of delime solution as recommended by the manufacturer of the chemicals. The tank capacities of the machine can be found in the Specifications section of this manual.

After the chemicals are added, perform the following steps:

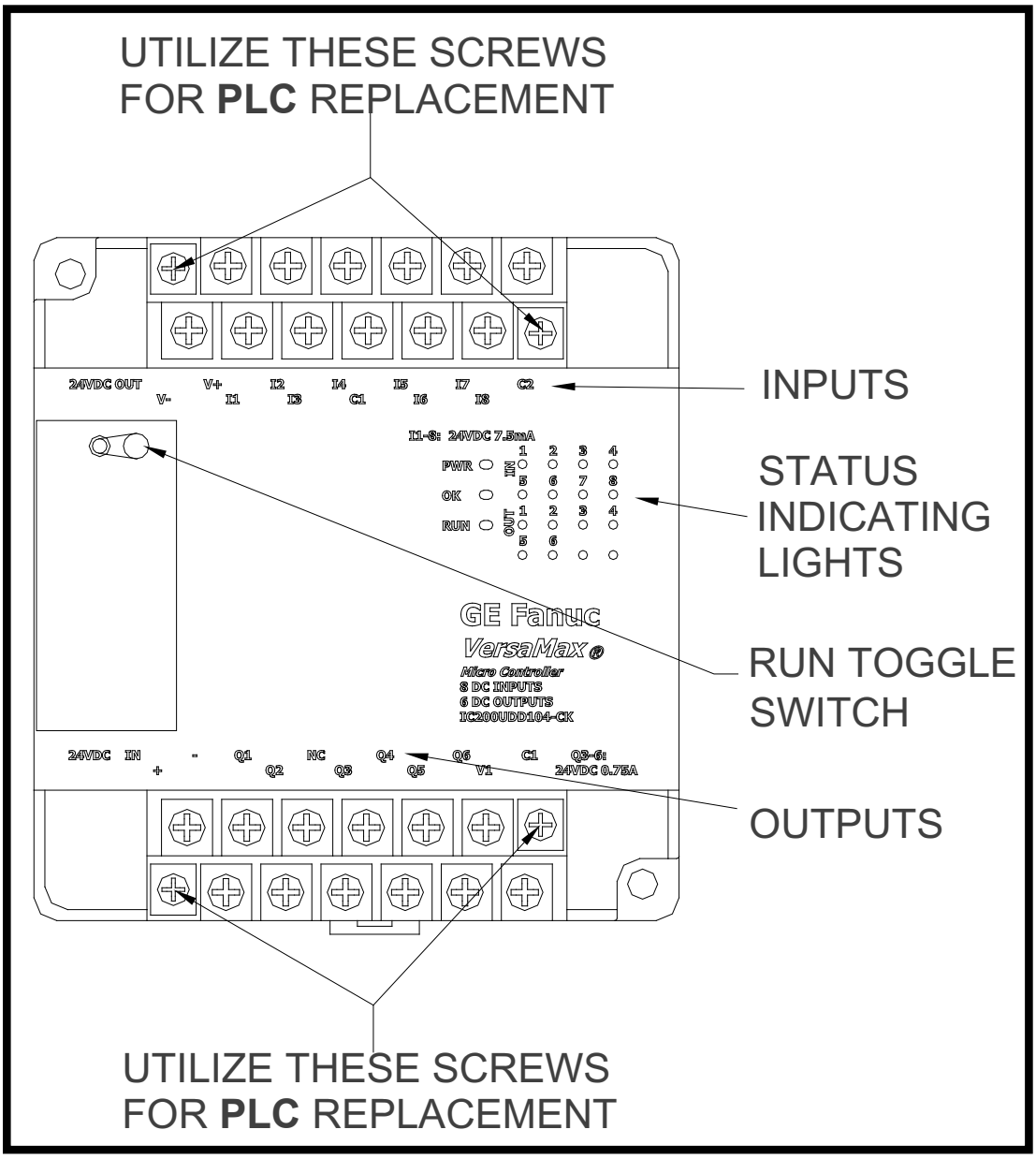
1. Flip the NORMAL/DELIME switch to DELIME.
2. Disconnect or turn off chemical feeder pumps.
3. Close all doors.
4. Press the START button and run the machine for the length of time required by the chemical solution manufacturer.
5. Press the START button to shut the unit off.
6. Open the door and step away for 5 minutes.
7. Inspect the inside of the unit to determine if expectations have been met. If not, try running the delime solution through the unit for more time.
8. Once clean, drain the machine completely.
9. Close the door.
10. Refill the unit.
11. Press the START button and run the unit in Manual for 10 minutes.
12. Press the START button to turn off the unit.
13. Open the front door.
14. Drain the unit.
15. Flip the NORMAL/DELIME switch to NORMAL.
16. The machine is ready to use.

This equipment is not recommended for use with deionized water or other aggressive fluids. Use of deionized water or other aggressive fluids will result in corrosion and failure of materials and components. Use of deionized water or other aggressive fluids will void the manufacturer's warranty.

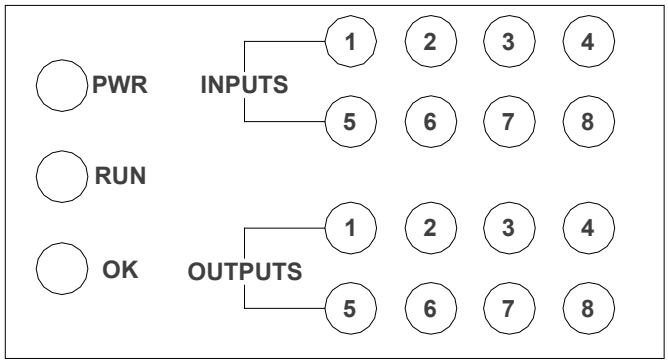
PLC TROUBLESHOOTING: Green LED lights are illuminated on the PLC when in operation. The POWER, OK & RUN lights indicate that 24VDC power is available to the PLC and that is functioning properly. If the RUN light is out, first check that the RUN toggle switch located behind the snap cover panel of the PLC is in the RUN position. If the switch is in the RUN position, it is possible that the operational program of the PLC is corrupted or lost. Temporary power surges may have occurred. Secure all power to the machine, wait for 30 seconds and restore power. Verify that the green light is illuminated to the 24VDC power supply immediately to the left of the PLC. If the RUN light is still off, replace the PLC.

Refer to the illustration below for the designation of each LED. PLC1 is used for the 44" Electric & Steam units. An expansion PLC (PLC2) is used in conjunction with PLC1 for 66" Electric & Steam units. Inputs correspond to the connections behind the top flip-up panel of the PLC and are marked I1 through I8. Outputs correspond to the connections behind the bottom flip-up panel of the PLC and are marked Q1 thru Q8.

Note: All outputs are fused. Q1 & Q2 outputs for both PLC's utilize 1.0 Amp fuses and Q3-Q8 outputs utilize 0.75 Amp fuses. When illuminated, the LED lights on the front of each PLC will show the input from and the outputs to various components as illustrated here. LED's that illuminate on PLC2 that are marked "NOT USED" have no bearing on the operation of the current warewashers.



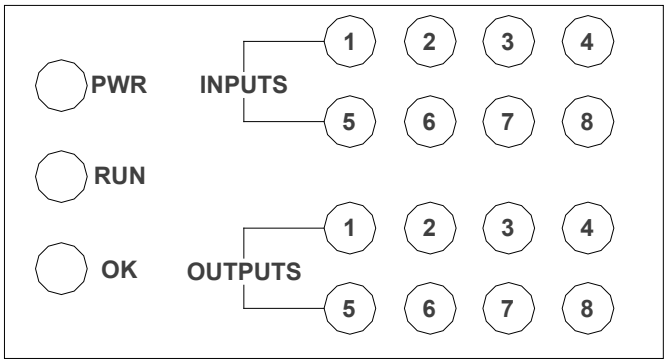
PLC1
LIGHT CONFIGURATION



INPUTS:
1. On/Off Switch
2. Door Switch Safety Interlocks
3. Rack Inlet Switch
4. Final Rinse Switch
5. Lower Wash Float Switch
6. Upper Wash Float Switch
7. Manual/Delime Switch
8. Side-Loader Switch (on with no rack present)

OUTPUTS:
1. Rinse Solenoid/Rinse Signal Relay
2. Wash Tank Fill Solenoid
3. Drive Motor Contactor
4. Wash Motor Contactor
5. Wash Heater Contactor or Steam Heat Relay
6. Ventilation Fan Relay
7. N/A
8. N/A

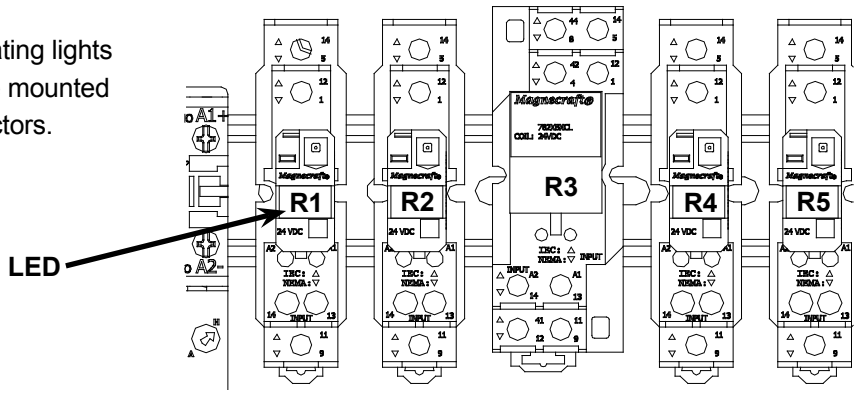
PLC2
LIGHT CONFIGURATION

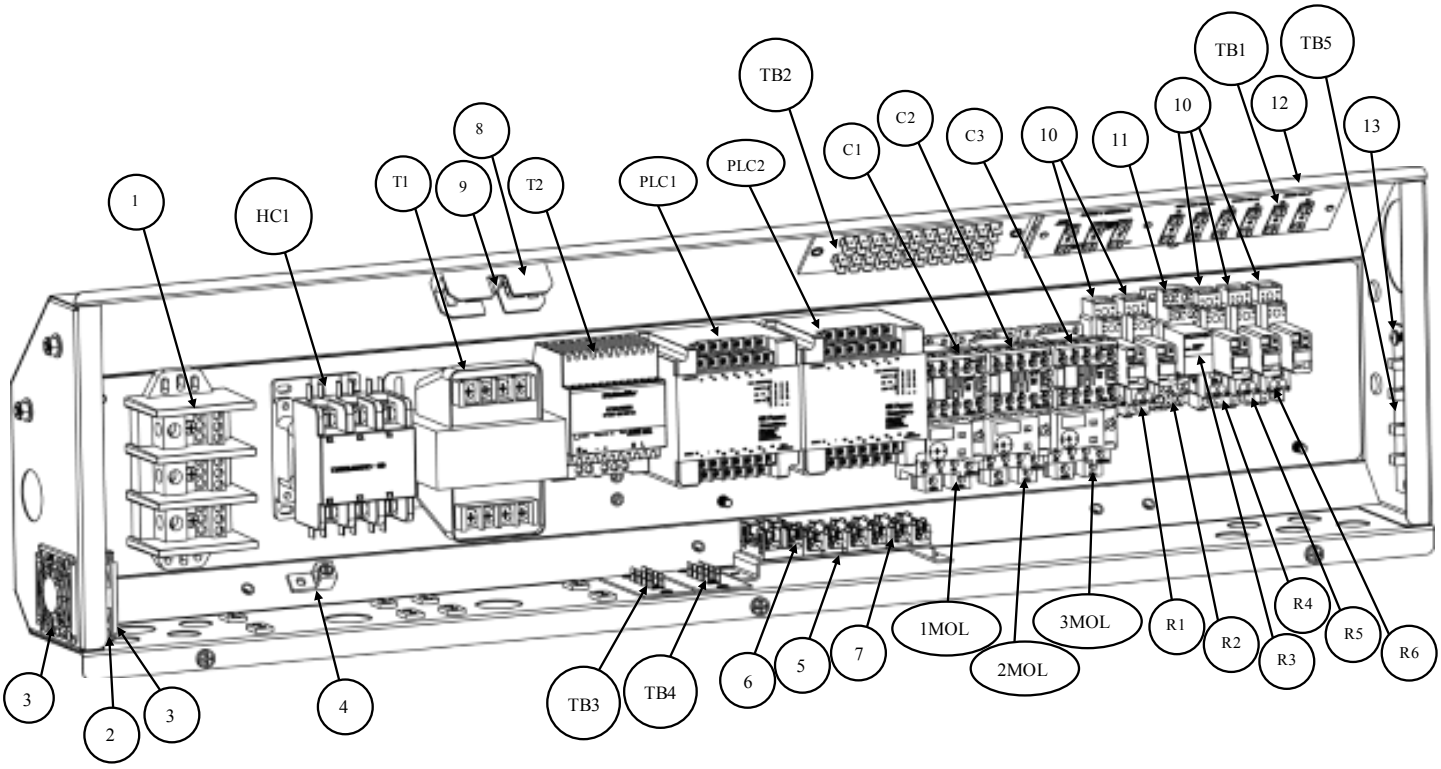


INPUTS:
1. Lower Pre-Wash Float Switch (66 Units Only)
2. Upper Pre-Wash Float Switch (66 Units Only)
3. N/A
4. N/A
5. N/A
6. N/A
7. N/A
8. N/A

OUTPUTS:
1. Pre-Wash Tank Fill Solenoid (66 Units Only)
2. Pre-Wash Motor Contactor (66 Units Only)
3. N/A
4. N/A
5. N/A
6. N/A
7. N/A
8. N/A

All operational relays use green LED-indicating lights to verify proper operation. These relays are mounted immediately to the right of the motor contactors. Please refer to the illustration at right.





The illustration above depicts the components of a 66" electrically heated unit with the booster heater option. Component quantities and part numbers may vary for different units. Please refer to the notes within the parts list on the next page to verify that the required part number is correct.

ITEM	QTY	DESCRIPTION	PART NUMBER
PLC1	1	PLC, 24VDC (Programmed for 44" Units) (Programmed for 44" Units with Blower/Dryer)	05945-003-92-50 05945-004-10-84
T1	1	Transformer 208 to 120VAC (208V Units) Transformer 230/460 to 120VAC	05950-011-75-59 05950-011-68-35
T2	1	Power Supply 24VDC	05950-003-76-32
PLC 1 & 2	1	(Programmed for 66" Units)	06401-004-13-59
PLC 1 & 2	1	(Programmed for 66" Units with Blower/Dryer)	06401-004-13-61

PARTS

CONTROL BOX COMPONENTS

ITEM	QTY	DESCRIPTION	PART NUMBER
HC1	1	Contactor, 24VDC, 3 Pole (Used on 3-Phase Units) Contactor, 24VDC, 4 Pole (Used on 1-Phase Units)	05945-003-75-02 05945-003-73-22
C1	1	Contactor, Drive Motor	05945-003-75-22
C2	1	Contactor, Wash Pump	05945-003-75-22
C3	1	Contactor, Pre-Wash Motor (66" Units Only)	05945-003-75-22
R1	1	Relay, Vent Fan	05945-003-76-34
R2	1	Relay, Rinse Signal	05945-003-76-34
R3	1	Relay, Temperature Board	05945-003-79-57
R4	1	Relay, Booster Heater (Optional)	05945-003-76-34
R5	1	Relay, Wash Tank Steam (Steam Units Only)	05945-003-76-34
R6	1	Relay, Photo Cell Table Limit (Optional)	05945-003-76-34
1MOL	1	Overload, Drive Motor (Used on 3-Phase Units)	See Overload Page
2MOL	1	Overload, Wash Motor (Used on 3-Phase Units)	See Overload Page
3MOL	1	Overload, Pre-Wash Motor (Used on 3-Phase 66" Units)	See Overload Page
TB1	1	Terminal Board, Signal	05940-003-77-43
TB2	1	Terminal Board, DC	05940-003-77-65
TB3	1	Terminal Board, L1	05940-021-94-85
TB4	1	Terminal Board, L2	05940-021-94-85
TB5	1	Terminal Board, Blower	05940-021-70-74
1	1	Terminal Block 3 Pole	05940-011-48-27
2	1	Fan, 24VDC	05999-002-47-12
3	2	Fan Finger Guard	05999-003-12-92
4	1	Ground Lug	05940-200-76-00
5	1	Bracket, Fuse Strip	05700-002-42-03
6	1	Fuse Holder	05920-401-03-14
7	1	Fuse Holder, 6 Slot	05920-002-42-13
8	1	Holder, Bussman Fuse	05920-011-72-89
9	1	Fuse, 1.0 Amp (208V & 230V Units) Fuse, 0.5 Amp (460V Units)	05920-002-67-23 05920-011-72-88
10	5	Relay Socket, 20A, 300V (Used for R1, R2, R4, R5 & R6)	05945-003-76-33
11	1	Relay Socket, 16A, 300V (Used for R3)	05945-003-79-58
12	1	Control Box Weldment (44" Units) Control Box Weldment (66" Units)	 05700-003-82-04
13	2	Screw, 10-32 x 1/2" Phillips Pan Head w/Washer	05305-002-32-37

WASH MOTORS: Overloads are specified for 3-phase units only.
For GE brand MT03* series overloads, the process for setting is as follows:

- Determine the Full Load Amps for the wash motor.
- Set the overload at the closest setting without going over for the FLA of the motor.
- The overload already compensates for the FLA and will have a set point that is 125% of the FLA. (Example: Wash motor is rated at 10.0 FLA on the data plate. The replacement MT03* overload will be set at 10.0. It will trip at 12.5 Amps.)

WASH MOTOR VOLTAGE	PART NUMBER	GE PART NUMBER
208	05945-003-76-29	MT03N
230	05945-003-76-29	MT03N
460	05945-003-76-27	MT03L

Blue selector switch should be set to H for manual reset.

DRIVE MOTORS: Overloads are specified for 3-phase units only.
For GE brand MT03* series overloads, the process for setting is as follows:

- Determine the Full Load Amps for the drive motor.
- Set the overload at the closest setting without going over for the FLA of the motor.
- The overload already compensates for the FLA and will have a set point that is 125% of the FLA. (Example: Drive motor is rated at 1.0 FLA on the data plate. The replacement MT03* overload will be set at 1.0. It will trip at 1.25 Amps.)

DRIVE MOTOR VOLTAGE	PART NUMBER	GE PART NUMBER
208	05945-003-76-23	MT03F
230	05945-003-76-23	MT03F
460	05945-003-76-21	MT03D

Blue selector switch should be set to H for manual reset.

PRE-WASH MOTORS: Overloads are specified for 3-phase units only.
For GE brand MT03* series overloads, the process for setting is as follows:

- Determine the Full Load Amps for the pre-wash motor.
- Set the overload at the closest setting without going over for the FLA of the motor.
- The overload already compensates for the FLA and will have a set point that is 125% of the FLA. (Example: Pre-wash motor is rated at 6.0 FLA on the data plate. The replacement MT03* overload will be set at 6.0. It will trip at 7.5 Amps.)

PRE-WASH MOTOR VOLTAGE	PART NUMBER	GE PART NUMBER
208	05945-003-76-28	MT03M
230	05945-003-76-28	MT03M
460	05945-003-76-26	MT03K

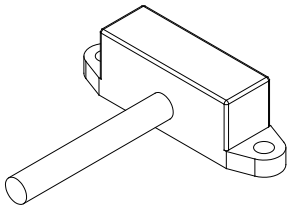
Blue selector switch should be set to H for manual reset.

NOTE: Connections should be tightened to 7 in.-lbs.

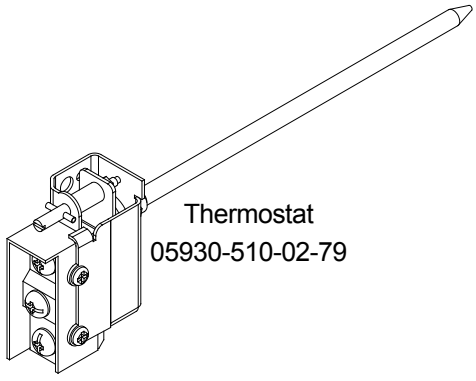
PARTS

MISCELLANEOUS ELECTRICAL COMPONENTS

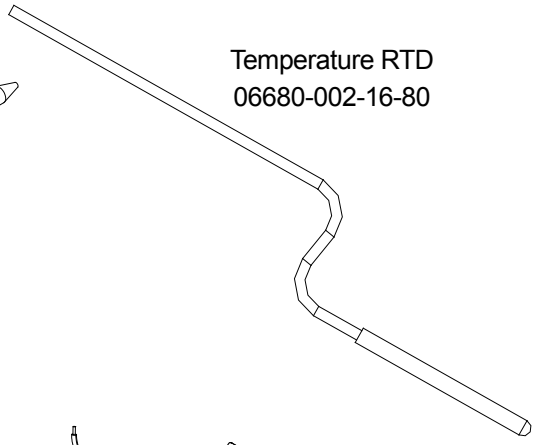
DESCRIPTION	PART NUMBER
Fitting, 1", 90 Degree Hub (2 per 44" Units; 1 per 66" Units)	05975-003-77-44
Fitting, 1" Straight Hub (1 per 66" Units)	05975-003-88-01
Fitting, 3/4" STR QT	05975-003-77-46
Fitting, 3/4" 90 Degree QT	05975-003-77-45
Fitting, 1/2" NPT 90 Degree	05975-003-35-32
Fitting, 1/2" NPT STR	05975-003-33-27
Fitting, .231 x .394	05975-011-49-03
Clamp, 1" Conduit	05975-003-77-88
Clamp, 3/4" Conduit	05975-003-77-89
Plug, 2.5" Hole, Louvered	05975-003-77-39
Plug	05975-011-47-81
Plug	05975-002-29-94
Plug	05340-044-46-79
Plug	05975-011-59-49
Bushing	05975-003-10-46
Grommet, 1.250 OD x 1.000 ID	05975-111-58-01
Grommet, 7/8" Split	05975-200-40-00



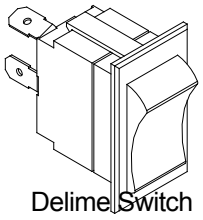
Proximity Switch 24VDC
05930-003-76-51



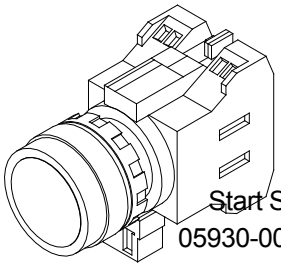
Thermostat
05930-510-02-79



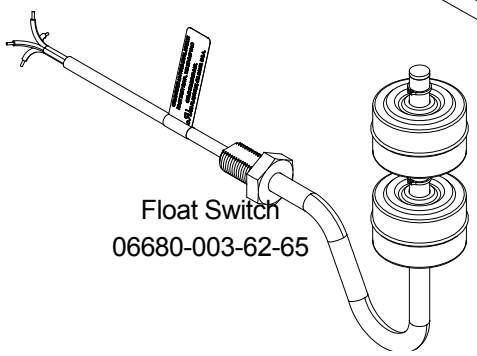
Temperature RTD
06680-002-16-80



Delime Switch
05930-301-46-00

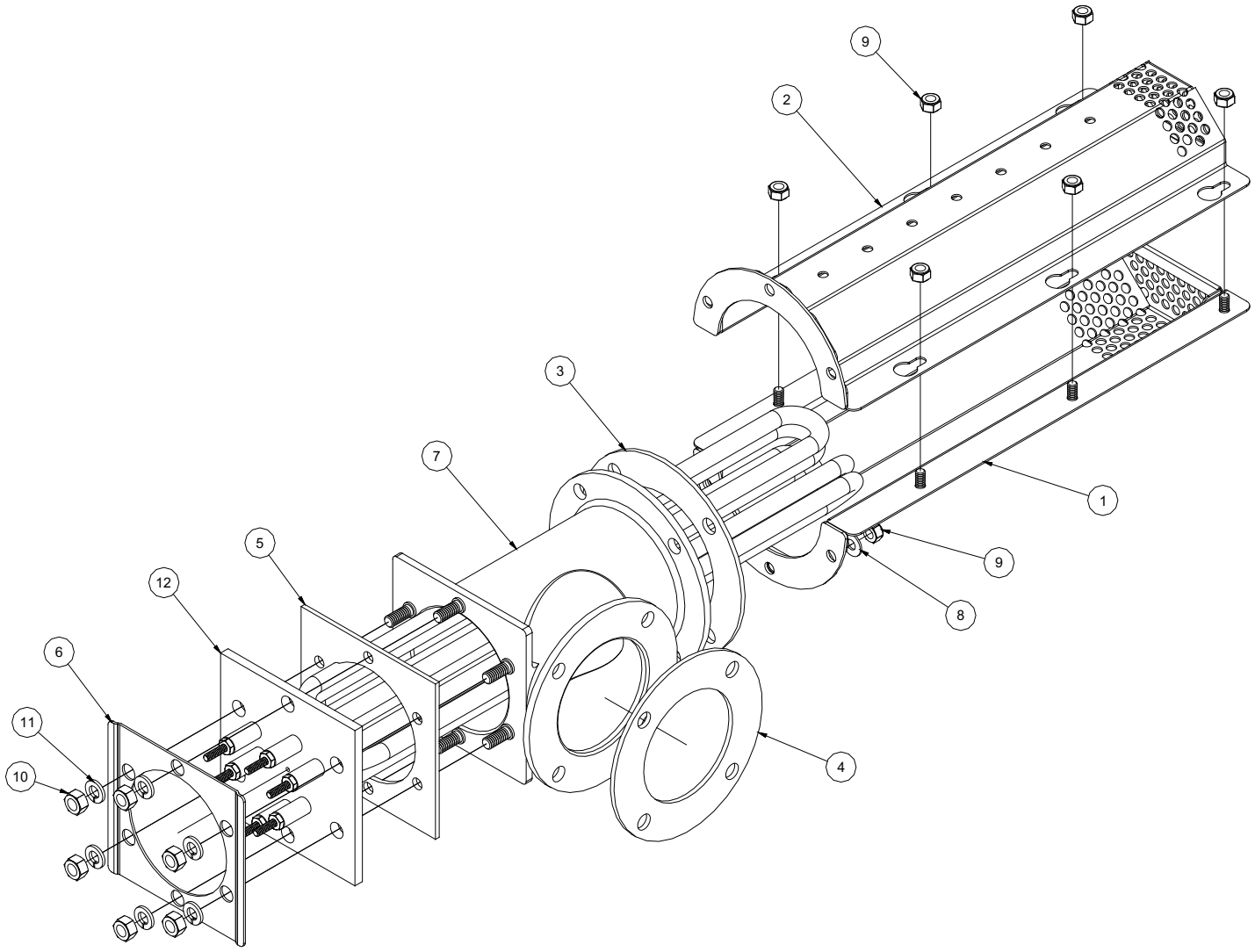


Start Switch
05930-003-76-52



Float Switch
06680-003-62-65

WASH HEATER & HEATER SHROUD ASSEMBLIES

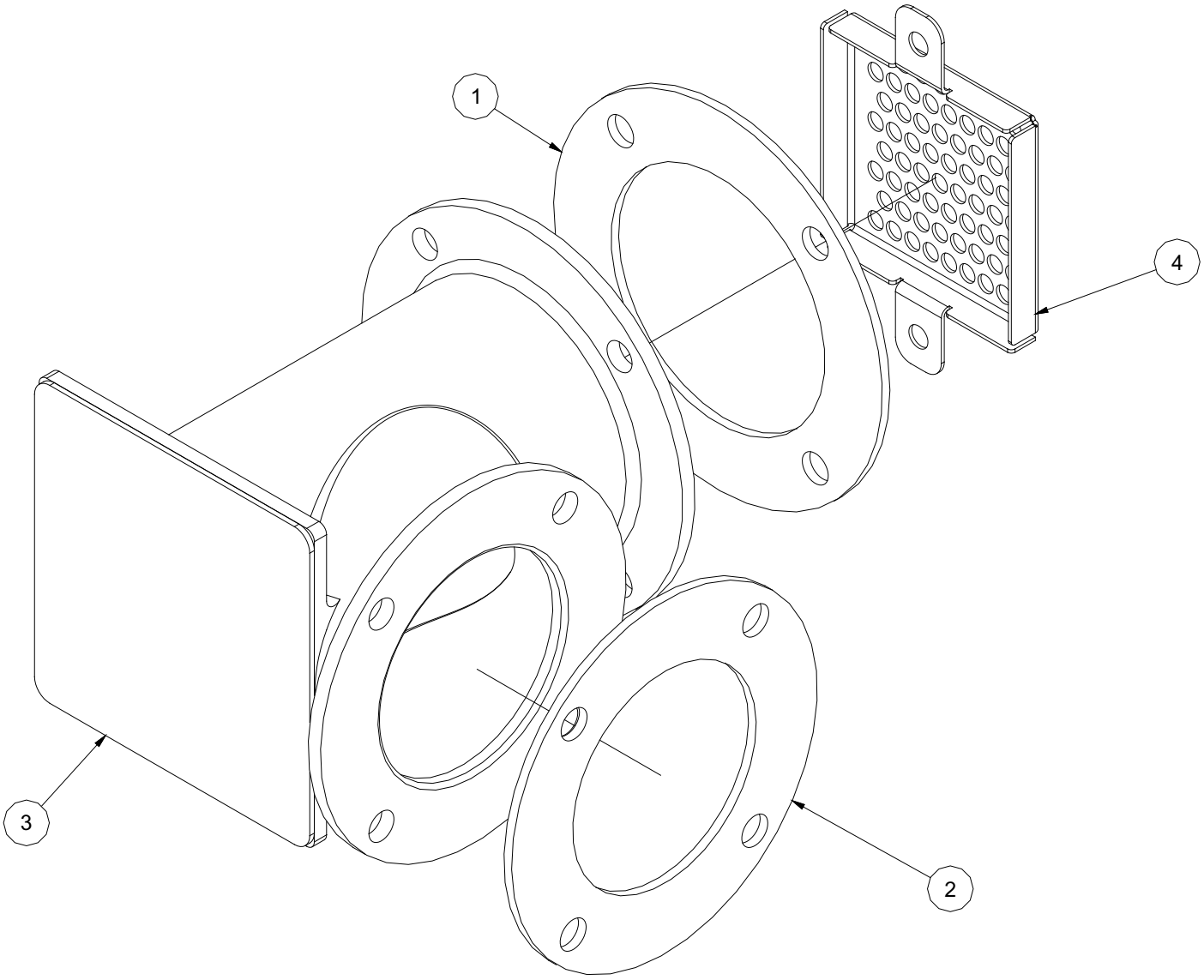


ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Heater Shroud Weldment Lower	05700-003-74-21
2	1	Heater Shroud Weldment Upper	05700-003-74-24
3	1	Gasket, Suction Casting	05330-003-75-89
4	1	Gasket, Pump Suction	05330-003-75-87
5	1	Gasket, Heater	05330-200-02-70
6	1	Heater Box Rails	05700-003-74-72
7	1	Wash Pump Suction Weldment	05700-003-77-63
8	2	Washer, S/S	05311-174-01-00
9	9	Locknut, 1/4"-20 Hex w/Nylon Insert	05310-374-01-00
10	6	Nut, Hex 5/16"-18 S/S	05310-275-01-00
11	6	Lockwasher, 5/16" Split S/S	05310-275-01-00
12	1	Wash Heating Element, 15kW/18kW	See Heater Chart

PARTS

PUMP SUCTION ASSEMBLY

USED ON ALL PRE-WASH TANKS
AND ALL STEAM-HEATED TANKS



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Gasket, Suction Casting	05330-003-75-89
2	1	Gasket, Pump Suction	05330-003-75-87
3	1	Pre-Wash Pump Suction Weldment	05700-003-82-27
4	1	Strainer, Pre-Wash Pump	05700-003-81-28

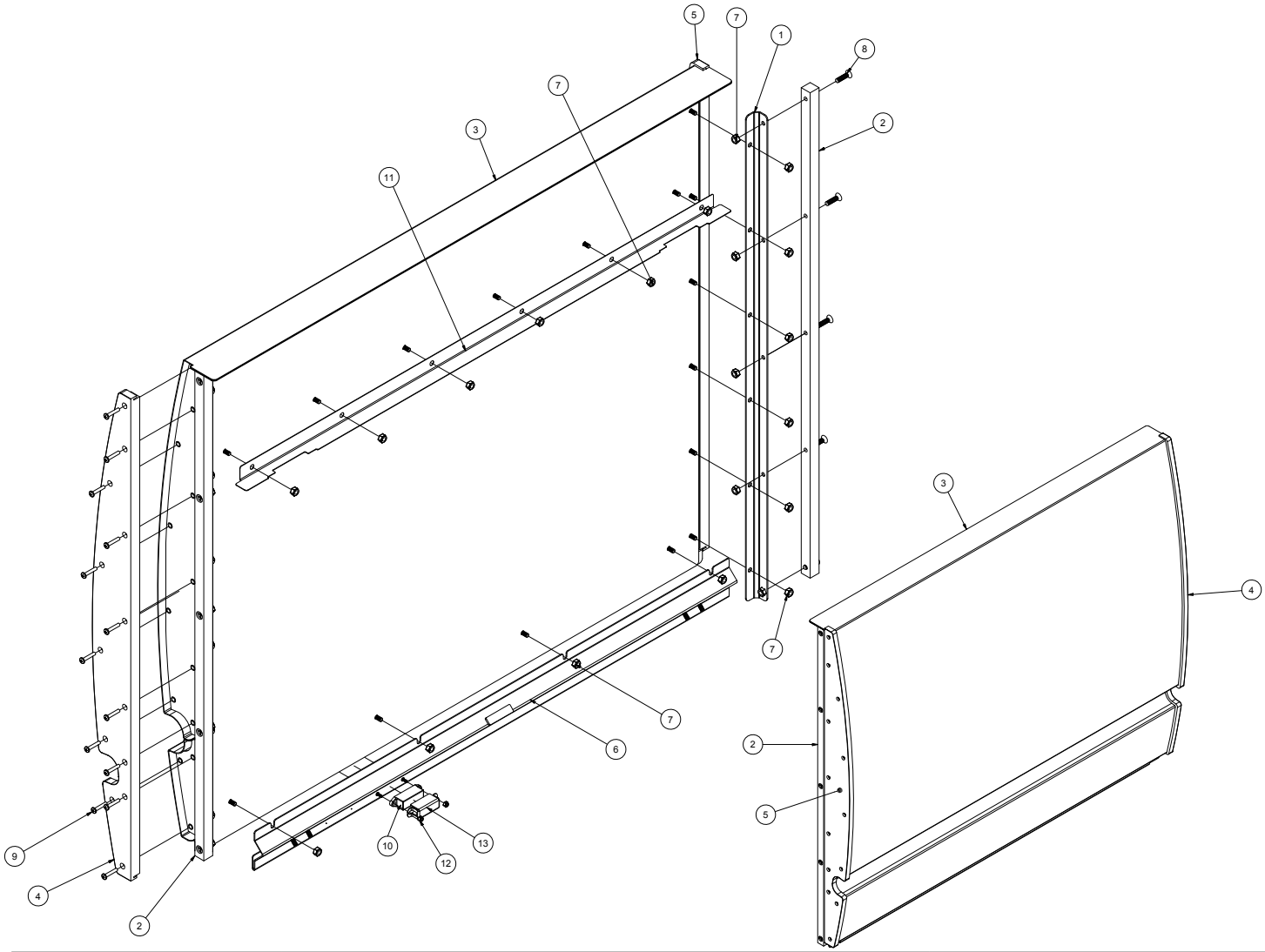
VOLTAGE	PHASE	KW	PART NUMBER	CONTACTOR
208	1	15	04540-121-68-45	05945-003-73-22
230	1	15	04540-121-68-46	05945-003-73-22
208	3	15	04540-121-68-45	05945-003-75-02
230	3	15	04540-121-68-46	05945-003-75-02
460	3	15	04540-121-68-47	05940-003-75-02
208	1	18	04540-121-79-30	05945-003-73-22
230	1	18	04540-121-79-31	05945-003-73-22
208	3	18	04540-121-79-30	05945-003-75-02
230	3	18	04540-121-79-31	05945-003-75-02
460	3	18	04540-121-79-32	05945-003-75-02

SERVICE NOTES: When replacing wash heaters it is highly recommended to change the gasket also. Once installed, gaskets become compressed and are subject to extreme temperature changes. Replacing the gasket with the heater may prevent future leaks.

The nuts used to secure the heater to the casting should be torque to 16 in.-lbs. After tightening, the unit should be allowed to heat up and operate normally for approximately 30 minutes. Secure power to the machine and check the nuts once more to verify they are torque to 16 in.-lbs.

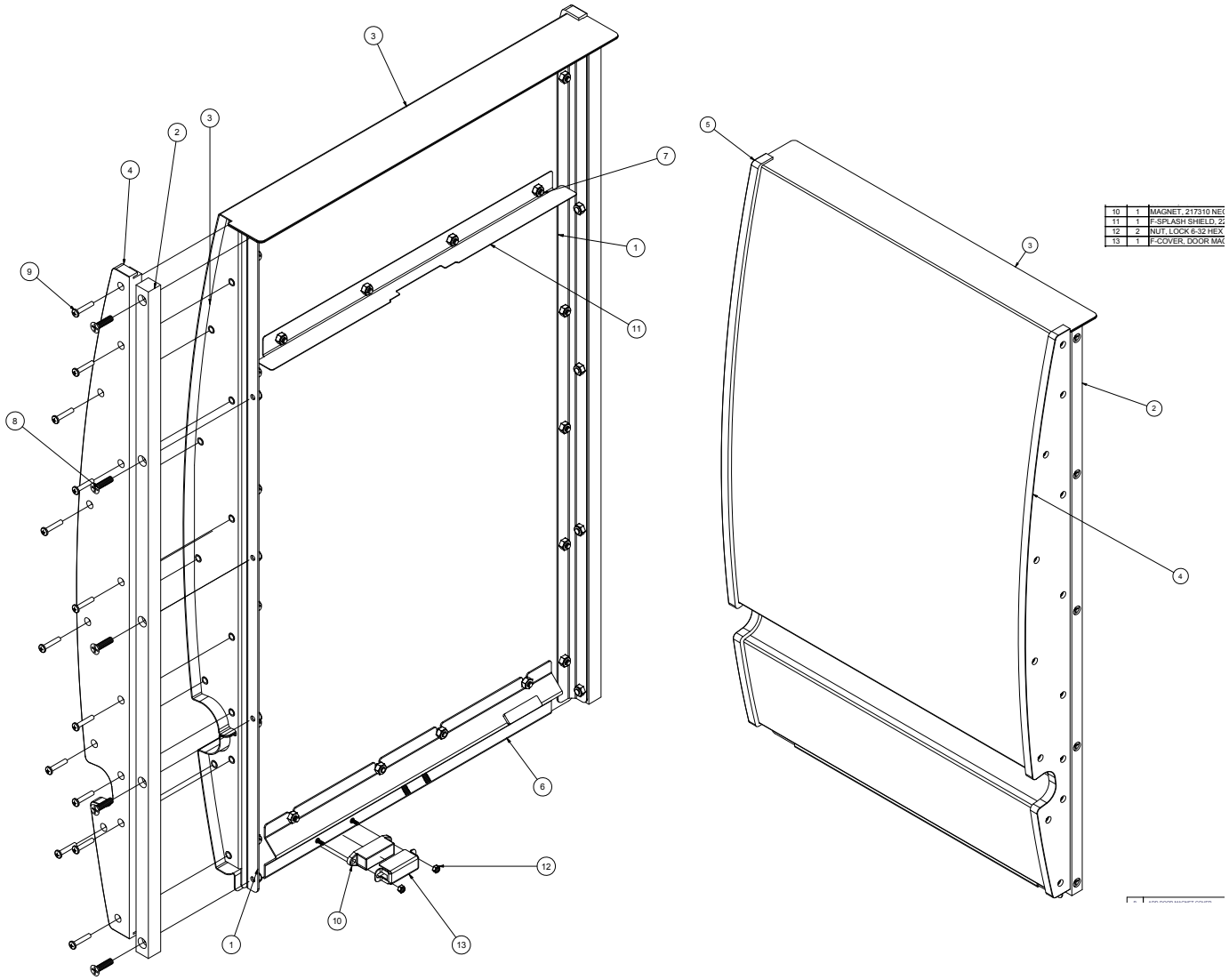
PARTS

DOOR ASSEMBLY, 44"



ITEM	QTY	DESCRIPTION	PART NUMBER
1	2	Bracket, Door Guide	05700-003-72-32
2	2	Door Guide	09330-003-73-94
3	1	Door Weldment, 44"	05700-003-76-87
4	1	End Piece, Door Right Side	09330-003-73-83
5	1	End Piece, Door Left Side	09330-003-73-84
6	1	Door Stop & Support Weldment	05700-003-72-51
7	32	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
8	10	Screw, 1/4-20 x 1"	05305-011-81-58
9	26	Screw, 10-32 x 1"	05305-002-19-42
10	1	Magnet	05930-002-88-42
11	1	Splash Shield, 44" Door	05700-003-81-86
12	2	Locknut, 6-32 Hex w/Nylon Insert	05310-373-03-00
13	1	Cover, Door Magnet	05700-004-07-38

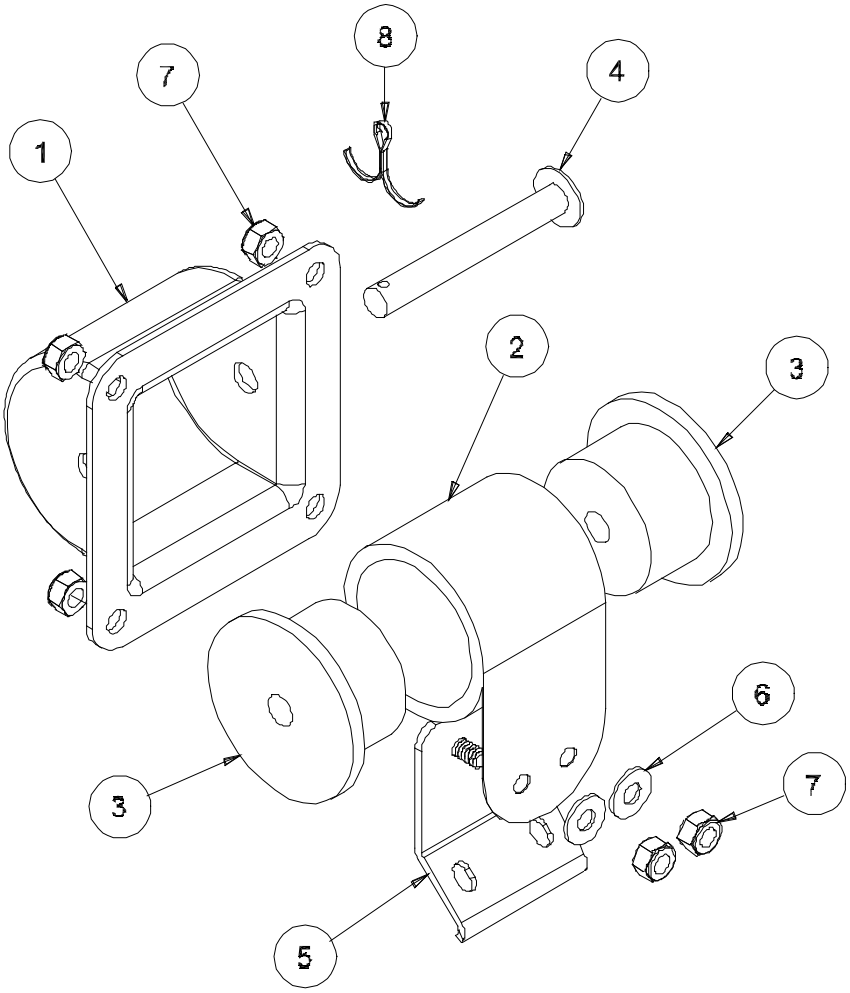
PRE-WASH DOOR ASSEMBLY, 22"



ITEM	QTY	DESCRIPTION	PART NUMBER
1	2	Bracket, Door Guide	05700-003-72-32
2	2	Door Guide	09330-003-73-94
3	1	Door Weldment, 22" Pre-Wash	05700-003-80-32
4	1	End Piece, Door Right Side	09330-003-73-83
5	1	End Piece, Door Left Side	09330-003-73-84
6	1	Door Stop & Support Weldment L-R	05700-003-82-50
7	30	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
8	10	Screw, 1/4-20 x 1"	05305-011-81-58
9	26	Screw, 10-32 x 1"	05305-002-19-42
10	1	Magnet	05930-002-88-42
11	1	Splash Shield, 22" Pre-Wash Door	05700-003-82-46
12	2	Locknut, 6-32 Hex w/Nylon Insert	05310-373-03-00
13	1	Cover, Door Magnet	05700-004-07-38

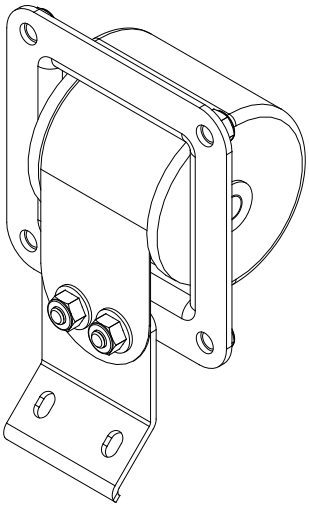
PARTS

DOOR SPRING ASSEMBLY

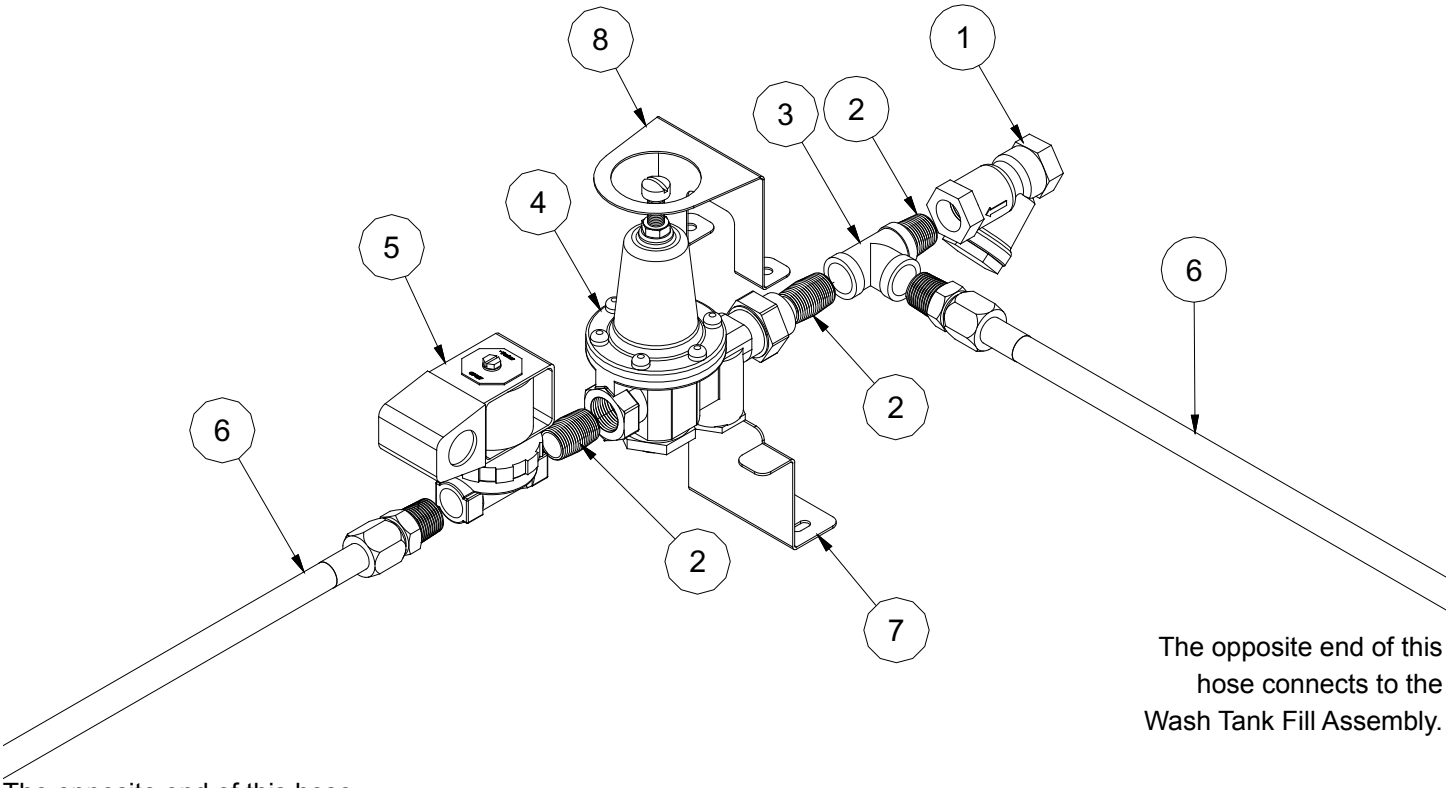


DOOR SPRING ASSEMBLY
05700-003-77-49

44" Wash doors use 2 assemblies
22" Pre-Wash doors use 1 assembly



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Casting, Door Spring Mount	09515-003-73-78
2	1	Spring, Door	05315-002-67-29
3	2	Spindle, Door Spring	05700-002-67-28
4	1	Pin, Door Spring	05700-002-83-55
5	1	Door Spring Bracket Weldment	05700-003-74-10
6	2	Washer, 1/4" S/S	05311-174-01-00
7	6	Locknut, 1/4"-20 Hex w/Nylon Insert	05310-374-01-00
8	1	Cotter Pin, 3/32" x 3/4"	05315-207-01-00



The opposite end of this hose connects to the Wash Tank Fill Assembly.

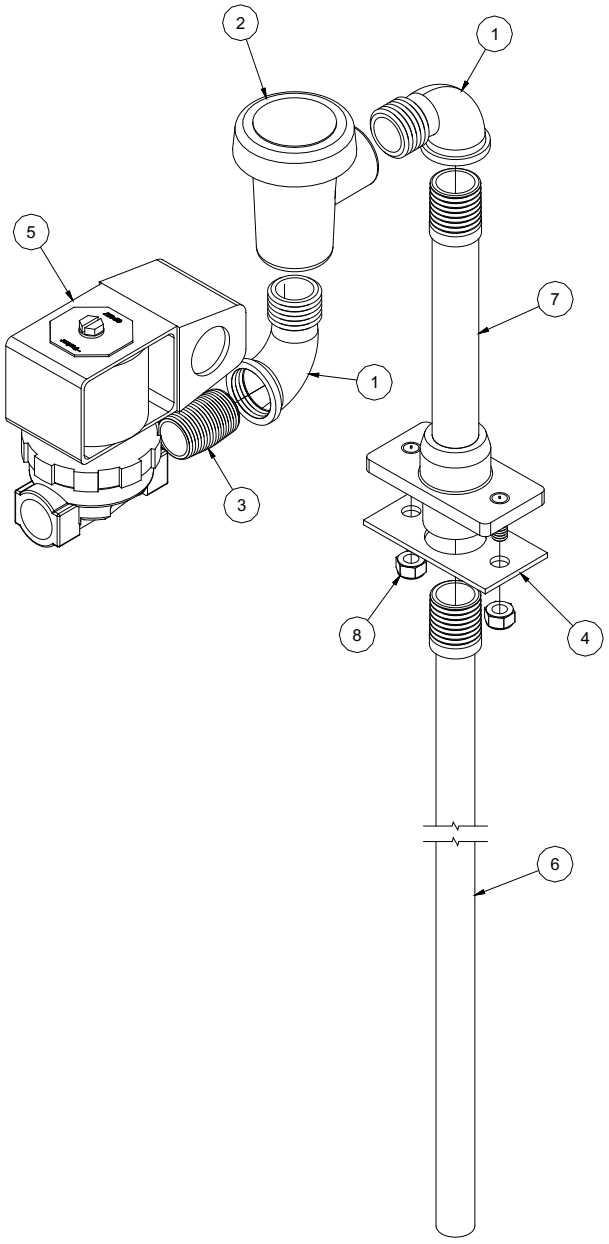
The opposite end of this hose connects to the Final Rinse Assembly. For units with the Booster Heater Option, this hose connects to the Booster Heater Inlet.

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Strainer, Inlet, 1/2"	04730-217-01-10
2	3	Nipple, 1/2" Close, Brass	04730-207-15-00
3	1	Tee, Brass, 1/2" x 1/2" x 1/2"	04730-211-27-00
4	1	Regulator, 1/2"	04820-100-04-07
5	1	Valve, 1/2" NPT Brass, 24VDC Coil	04810-003-75-16
6	2	Hose, 1/2" x 42" S/S Braided w/PTFE, Male Swivel	04720-003-76-09
7	1	Bracket, Inlet Plumbing Support	05700-003-74-42
8	1	Bracket, Upper Inlet Plumbing Support	05700-003-74-86

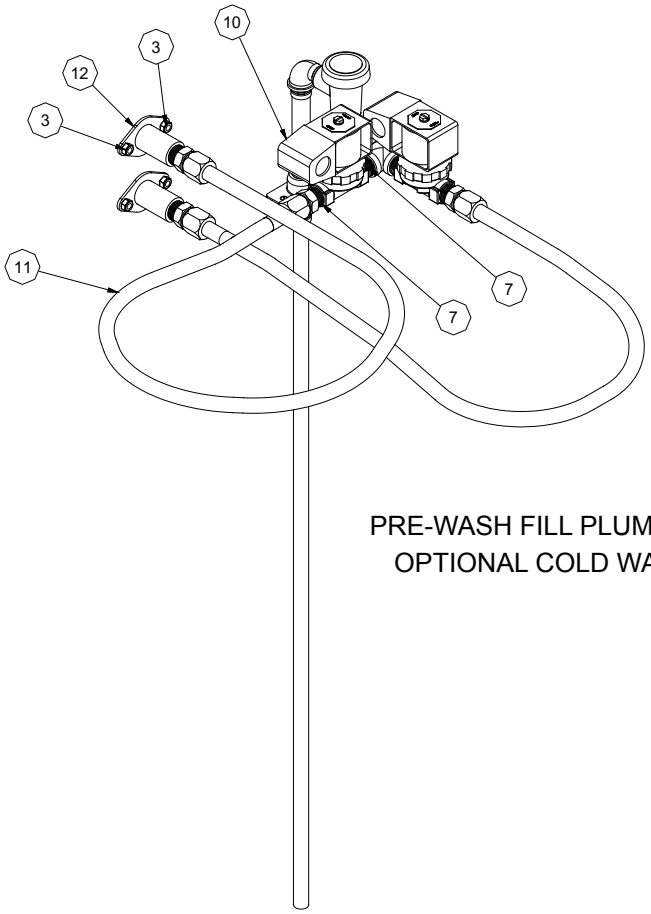
PARTS

WASH TANK FILL ASSEMBLY

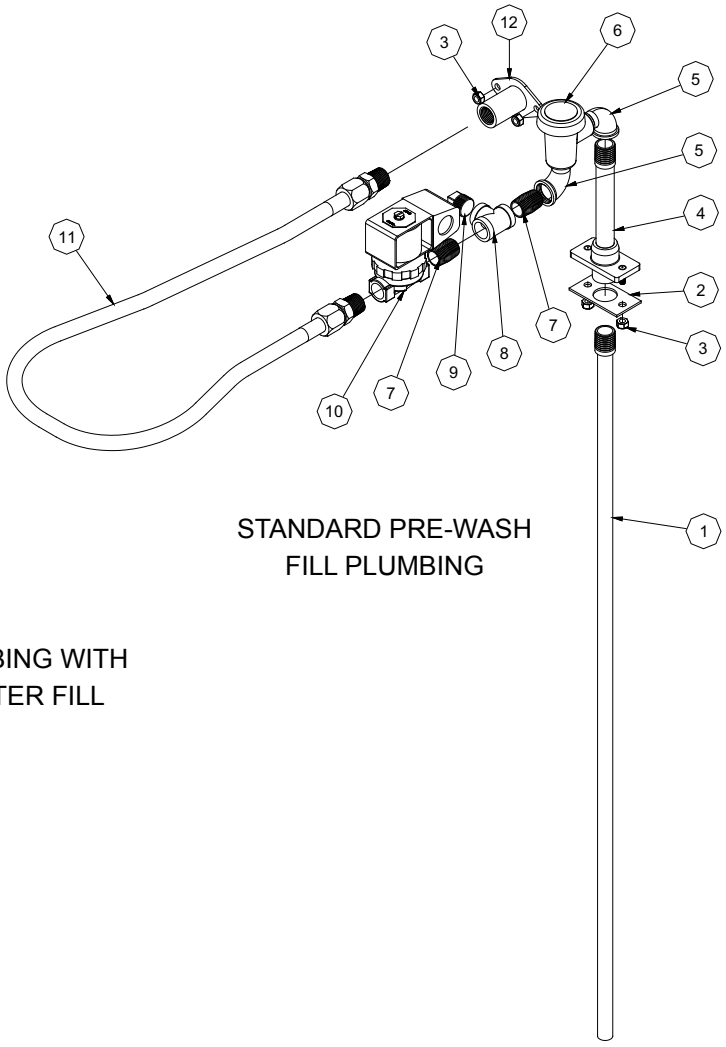
The hose from the Main Water Inlet Plumbing connects to this solenoid valve.



ITEM	QTY	DESCRIPTION	PART NUMBER
1	2	Elbow, 90 Degree, 1/2" Brass	04730-206-08-00
2	1	Vacuum Breaker, 1/2" Vacuum Breaker Repair Kit	04820-003-06-13 06401-003-06-23
3	1	Nipple, 1/2" Close, Brass	04730-207-15-00
4	1	Gasket, Rinse Manifold	05330-003-75-91
5	1	Valve, 1/2" NPT Brass, 24VDC Coil	04810-003-75-16
6	1	Tube Weldment, Tank Fill	05700-003-76-81
7	1	Tank Fill Injector Weldment	05700-003-76-84
8	2	Locknut, 1/4"-20 Hex w/Nylon Insert	05310-374-01-00



PRE-WASH FILL PLUMBING WITH
OPTIONAL COLD WATER FILL



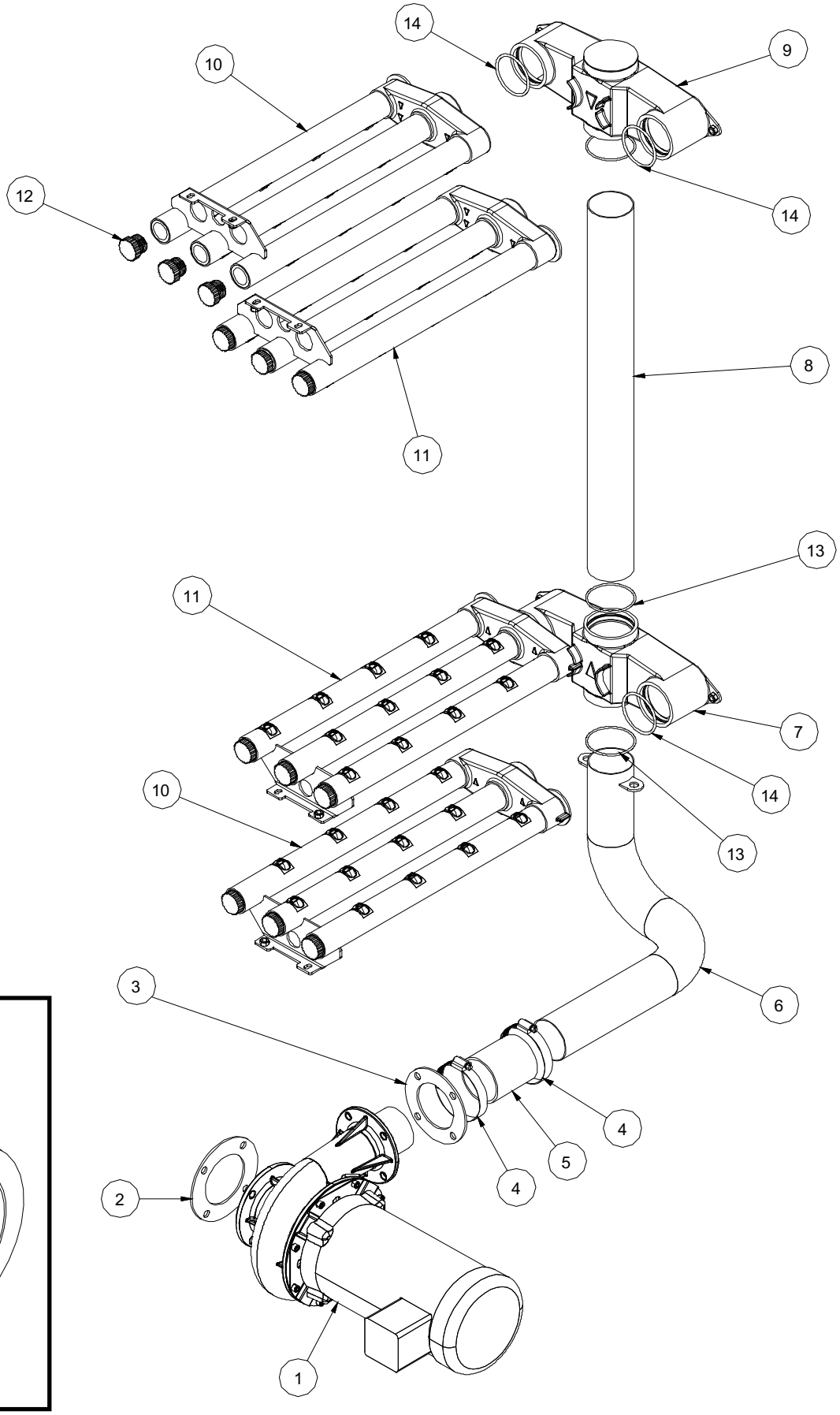
STANDARD PRE-WASH
FILL PLUMBING

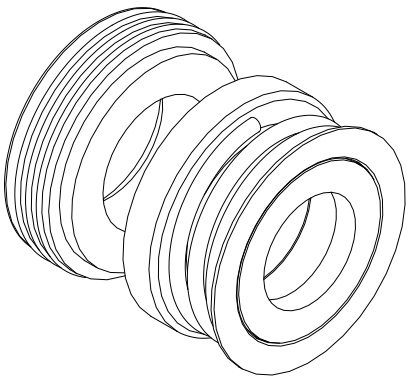
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Tube Weldment, Tank Fill	05700-003-76-81
2	1	Gasket, Rinse Manifold	05330-003-75-91
3	4 (6)*	Locknut, 1/4"-20 Hex w/Nylon Insert	05310-374-01-00
4	1	Tank Fill Injector Weldment	05700-003-76-84
5	2	Elbow, 90 Degree, 1/2" Brass	04730-206-08-00
6	1	Vacuum Breaker, 1/2" Vacuum Breaker Repair Kit	04820-003-06-13 06401-003-06-23
7	2 (3)*	Nipple, 1/2" Close, Brass	04730-207-15-00
8	1	Tee, 1/2" x 1/2" x 1/2" NPT Brass	04730-211-27-00
9	1 (0)*	Plug, 1/2" NPT Brass (Removed for Cold Water Fill Option)	04730-209-03-00
10	1 (2)*	Valve, 1/2" NPT Brass, 24VDC Coil	04810-003-75-16
11	1 (2)*	Hose, 1/2" x 42" S/S Braided w/PTFE, Male Swivel	04720-003-76-09
12	1 (2)*	Water Inlet Fitting	05700-003-81-98

*Denotes changed quantities when Cold Water Pre-Wash Fill option is added.

PARTS

WASH MANIFOLD & ARM ASSEMBLY





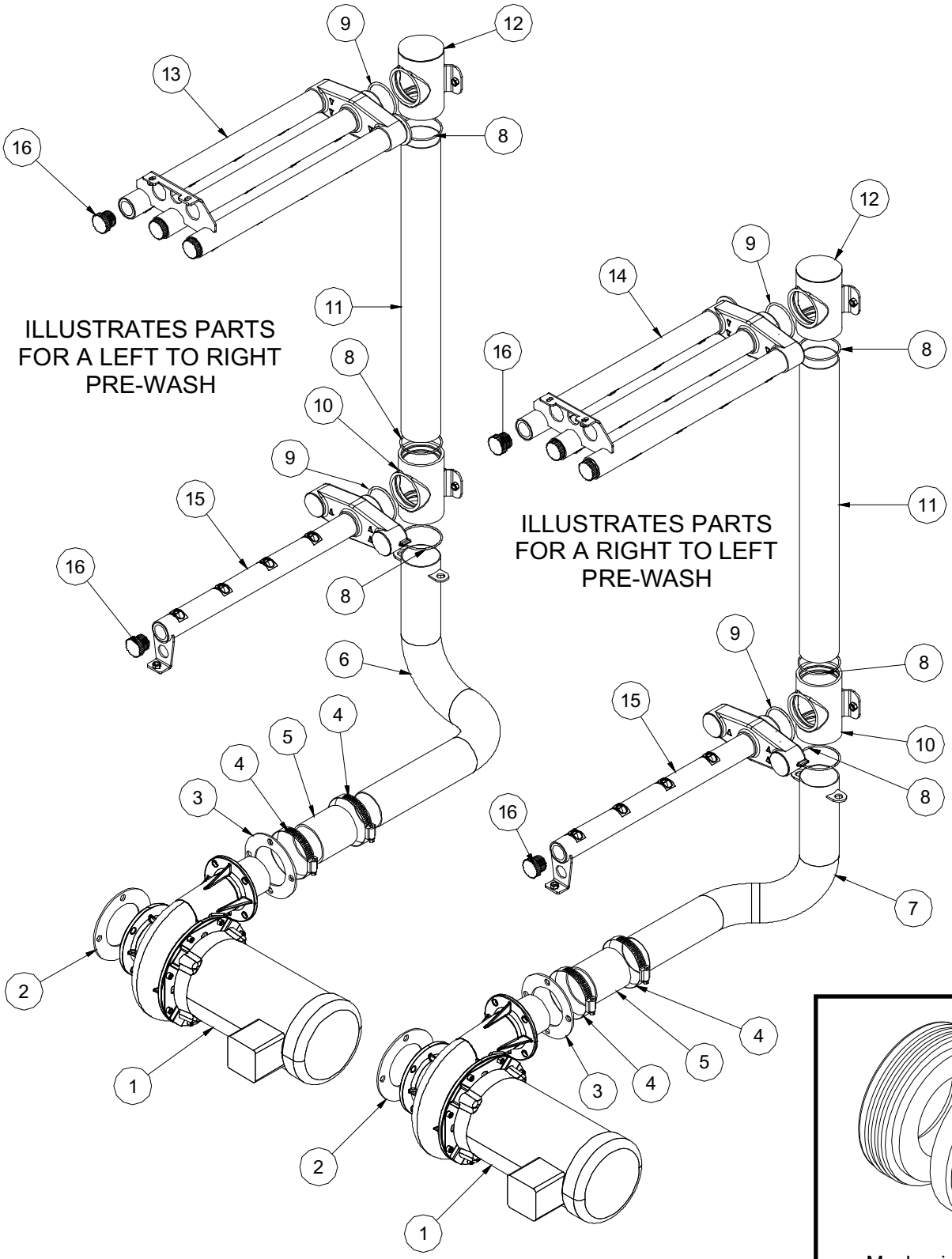
Mechanical Pump Seal
05330-002-34-22

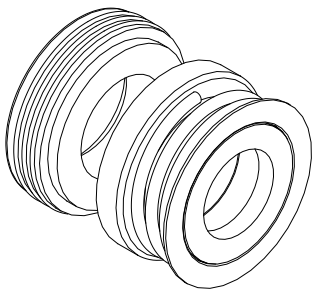
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Pump & Motor Assembly	See Table Below
2	1	Gasket, Pump Suction	05330-003-75-87
3	1	Gasket, Pump Discharge	05330-003-75-88
4	2	Hose Clamp, Range 2-9/16" to 3-1/2"	04730-003-15-40
5	1	Hose, Wash Pump Discharge	05700-003-77-62
6	1	(L-R Machines) Lower Manifold (R-L Machines) Lower Manifold	05700-003-74-29 05700-003-74-28
7	1	Casting, Wash Manifold	09515-003-71-50
8	1	Tube, Manifold Riser	05700-003-72-37
9	1	Wash Manifold Weldment, Upper	05700-003-73-66
10	2	Wash Arm Weldment, Right	05700-003-75-80
11	2	Wash Arm Weldment, Left	05700-003-75-79
12	12	Cap, Threaded	04730-603-12-00
13	3	O-Ring, Silicone, .103 Dia., 2-1/2" x 2-11/16" OD	05330-003-73-71
14	4	O-Ring, Silicone, .139 Dia., 2-1/4" ID x 2-1/2" OD	05330-003-73-72

PUMP & MOTOR ASSEMBLY	PART NUMBER
Wash Pump, 3HP, 208V, 60Hz, 3-Phase	06105-003-76-11
Wash Pump, 3HP, 230V, 60Hz, 3-Phase	06105-003-76-11
Wash Pump, 3HP, 460V, 60Hz, 3-Phase	06105-003-76-11
Wash Pump, 3HP, 460V, 60Hz, 1-Phase	06105-003-76-13
Wash Pump, 3HP, 230V, 60Hz, 1-Phase	06105-003-76-13

PARTS

PRE-WASH MANIFOLD & ARM ASSEMBLIES





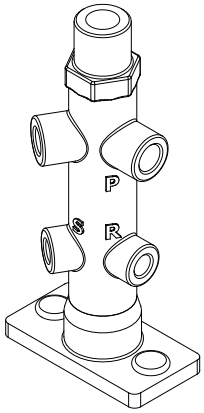
Mechanical Pump Seal
05330-002-34-22

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Pump & Motor Assembly	See Table Below
2	1	Gasket, Pump Suction	05330-003-75-87
3	1	Gasket, Pump Discharge	05330-003-75-88
4	2	Hose Clamp, Range 2-9/16" to 3-1/2"	04730-003-15-40
5	1	Hose, Wash Pump Discharge	05700-003-77-62
6	1	Lower Manifold (L-R Units)	05700-003-81-54
7	1	Lower Manifold (R-L Units)	05700-003-81-79
8	3	O-Ring, Silicone, .103 Dia., 2-1/2" x 2-11/16" OD	05330-003-73-71
9	2	O-Ring, Silicone, .139 Dia., 2-1/4" ID x 2-1/2" OD	05330-003-73-72
10	1	Casting, Pre-Wash Manifold	09515-003-77-22
11	1	Tube, Manifold Riser	05700-003-81-53
12	1	Wash Manifold Weldment, Upper	05700-003-81-76
13	1	Wash Arm Weldment, Left	05700-003-75-79
14	1	Wash Arm Weldment, Right	05700-003-75-80
15	1	Pre-Wash Arm Weldment, Lower	05700-003-80-96
16	4	Cap, Threaded	04730-603-12-00

PUMP & MOTOR ASSEMBLY	PART NUMBER
Pre-Wash Pump, 2HP, 208V, 60Hz, 3-Phase	06105-003-76-12
Pre-Wash Pump, 2HP, 230V, 60Hz, 3-Phase	06105-003-76-12
Pre-Wash Pump, 2HP, 460V, 60Hz, 3-Phase	06105-003-76-12
Pre-Wash Pump, 2HP, 460V, 60Hz, 1-Phase	06105-003-76-14
Pre-Wash Pump, 2HP, 230V, 60Hz, 1-Phase	06105-003-76-14

PARTS

RINSE ASSEMBLY

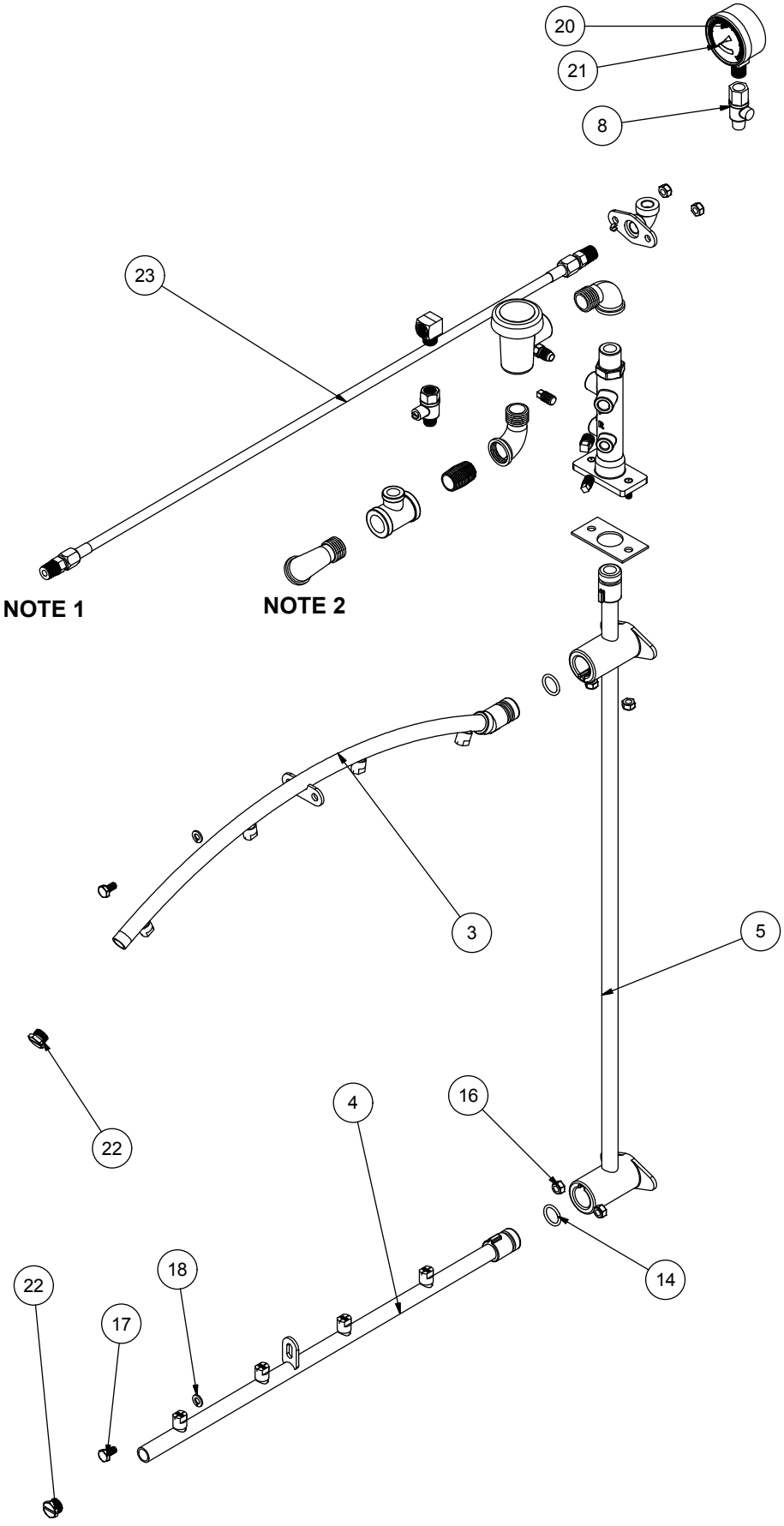


RINSE INJECTOR
CONNECTIONS

P: PRESSURE SWITCH
S: SANITIZER
R: RINSE AID

NOTE 1:
This hose connects to part #16 at one end and to part #20 at the opposite end.

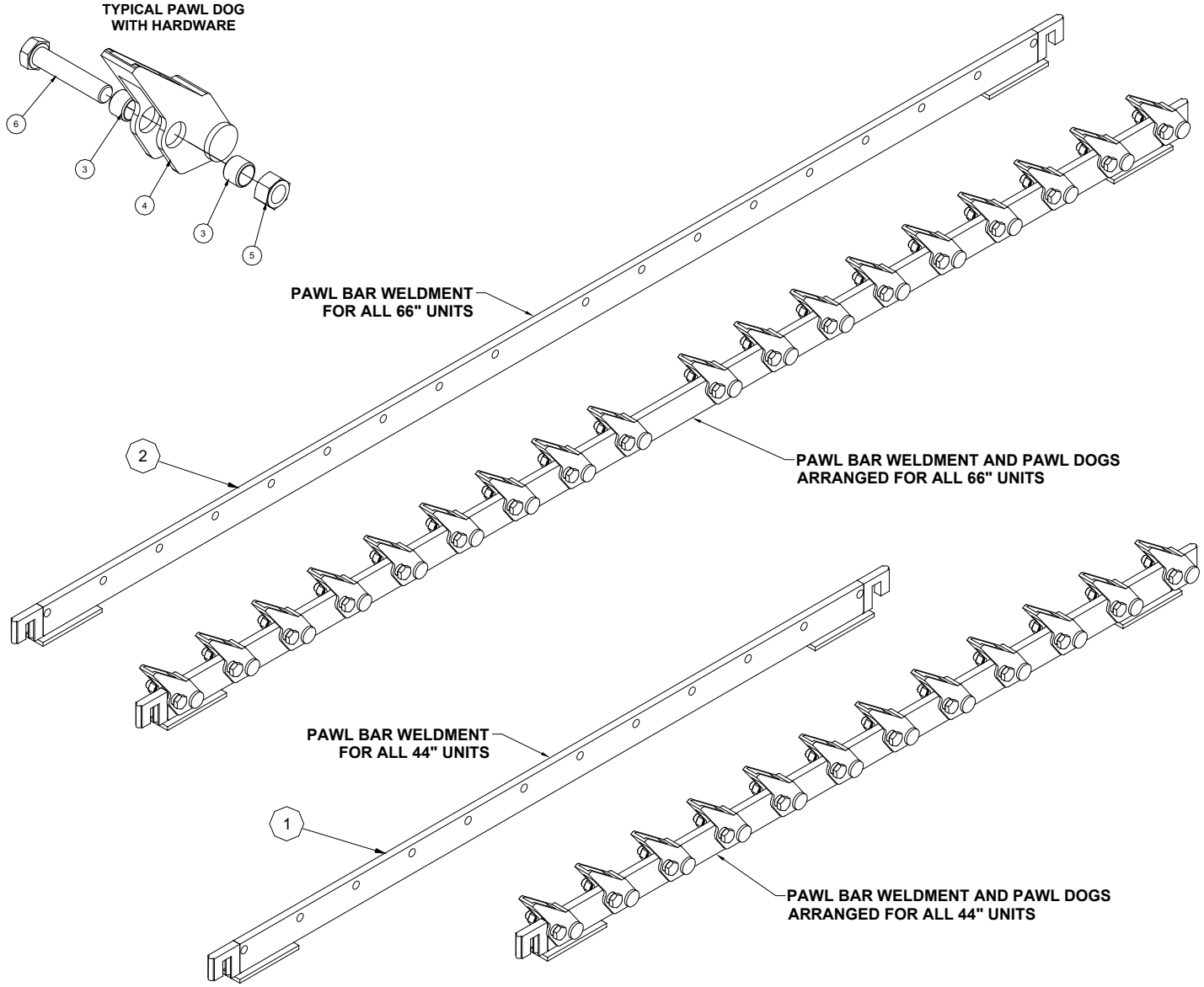
NOTE 2:
A hose from the Main Water Inlet Assembly connects to this elbow. For units with the Booster Heater option, the hose will connect to the booster heater outlet.



ITEM	QTY	DESCRIPTION	PART NUMBER
1	3	Elbow, 90 Deg., 1/2" Brass	04730-206-08-00
2	1	Vacuum Breaker, 1/2"	04820-003-06-13
3	1	Upper Rinse Arm	05700-003-76-02
4	1	Lower Rinse Arm	05700-003-76-04
5	1	Rinse Manifold	05700-003-76-79
6	1	Rinse Injector (L-R Units) (R-L Units)	05700-003-76-82 05700-003-76-83
7	1	Nipple, 1/2" Close Brass	04730-207-15-00
8	1	Valve, Ball Test Cock, 1/4" Bronze	04810-011-72-67
9	1	Tee, 1/2" FNPT x 1/2" FNPT x 1/4" FNPT	04730-002-22-56
10	2	Plug, 1/8" NPT Brass	04730-209-07-37
11	1	Gasket, Rinse Manifold	05330-003-75-91
12	1	Fitting, Imperial Brass	05310-924-02-05
13	1	Plug, 1/4"	04730-209-01-00
14	3	O-Ring, Silicon, .103 Dia., 11/16" x 7/8" OD	05330-003-77-82
15	1	Elbow, Brass, 90 Deg., 1/4" NPTM x 1/4" NPTF	04730-003-77-83
16	6	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
17	2	Bolt, 1/4-20 x 1/2" Long	05305-274-02-00
18	2	Lockwasher, Spring, 1/4"	05311-274-01-00
19	1	Elbow Weldment, Temp Gauge	05700-003-77-12
20	1	Gauge, 0-100# Pressure	06685-111-88-34
21	1	Decal 15-25 PSI	09905-002-97-74
22	2	End Plug	05700-011-35-92
23	1	Hose, 1/4 x 30 S/S Braided w/PTFE, Male Swivel	04720-003-76-10

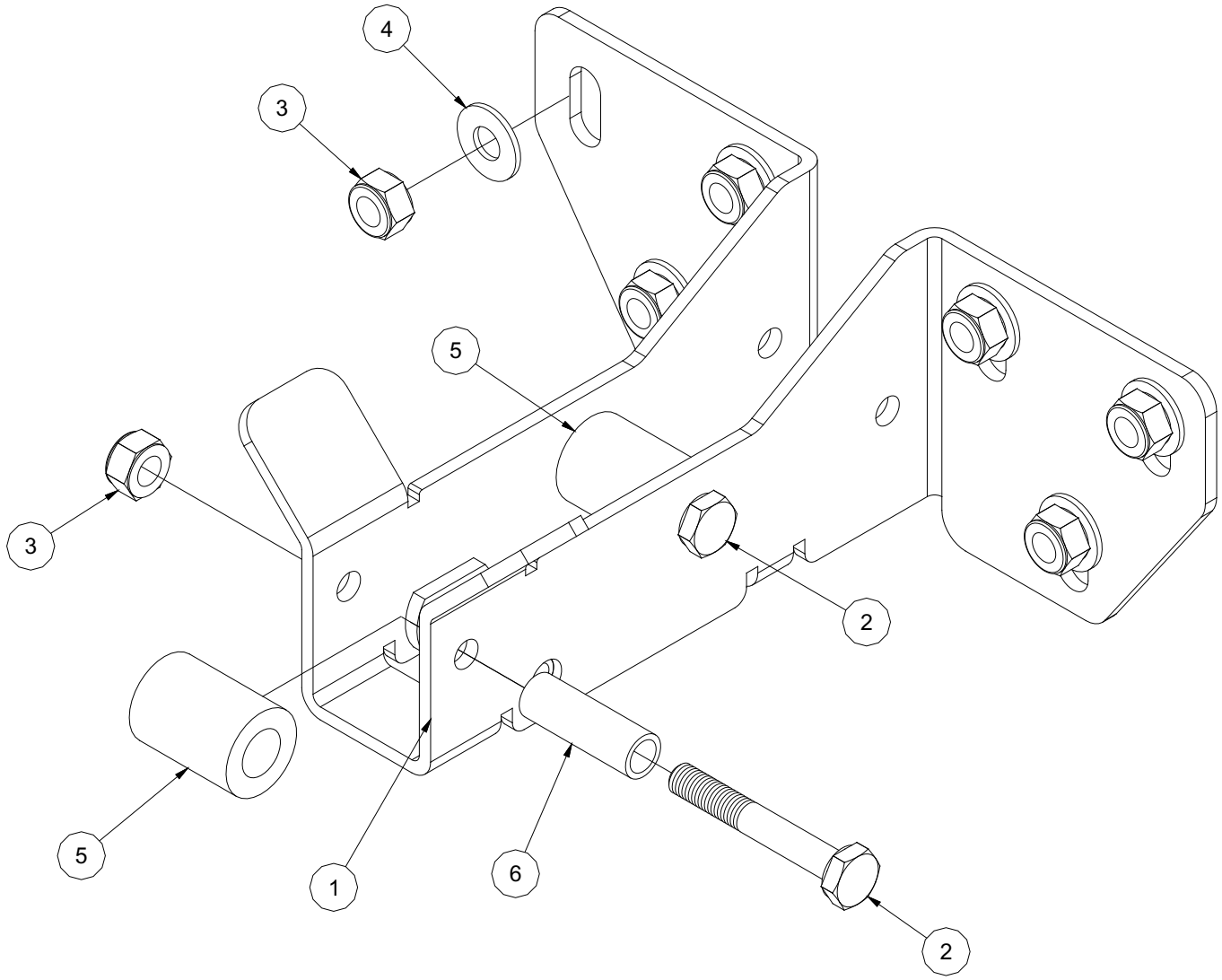
PARTS

PAWL BAR ASSEMBLIES



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Pawl Bar Weldment, 44" Units	05700-031-72-77
2	1	Pawl Bar Weldment, 66" Units	05700-003-89-34
3	24 (44") 36 (66")	Spacer, Pawl Bar Dog	05700-011-71-45
4	12 (44") 18 (66")	Pawl Bar Dog Casting	09515-021-69-00
5	12 (44") 18 (66")	Locknut, 3/8-16 w/Nylon Insert	05310-011-72-55
6	12 (44") 18 (66")	Bolt, 3/8-16 x 1-3/4" Long	05306-011-36-94

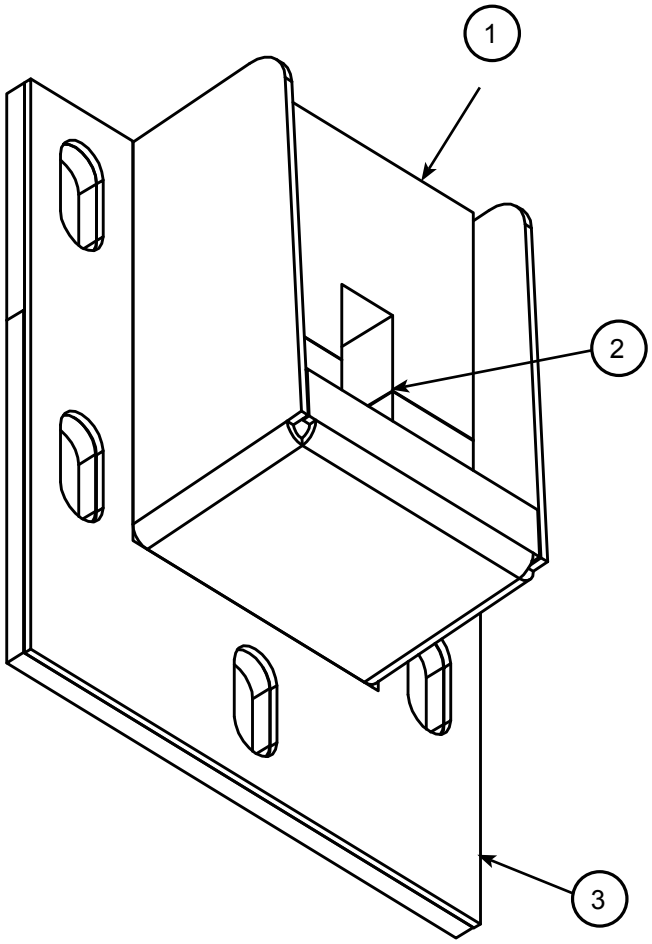
PAWL BAR BRACKET ASSEMBLY

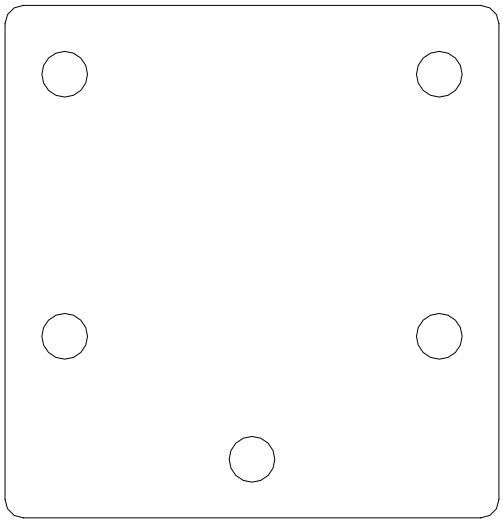


ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Pawl Bar Bracket Weldment	05700-003-74-39
2	2	Screw, 1/4-20 x 1-3/4" Hex Head	05305-274-10-00
3	8	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
4	6	Washer, S/S	05311-174-01-00
5	2	Roller, Bracket Rod	05700-011-68-16
6	2	Shaft, Roller, 3/8" x 1.13"	05700-011-68-14
		Pawl Bar Roller Replacement Kit (comes with # 2, 3, 5 &6)	06401-003-11-80

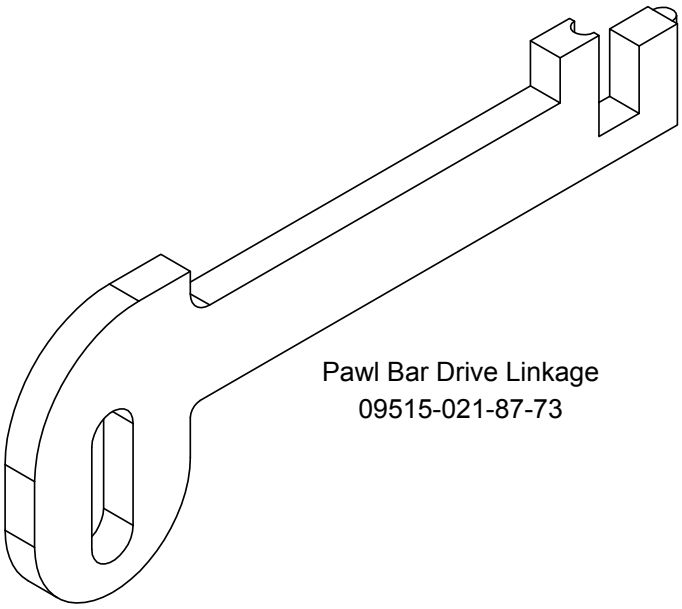
PARTS

PAWL BAR GUTTER ASSEMBLY





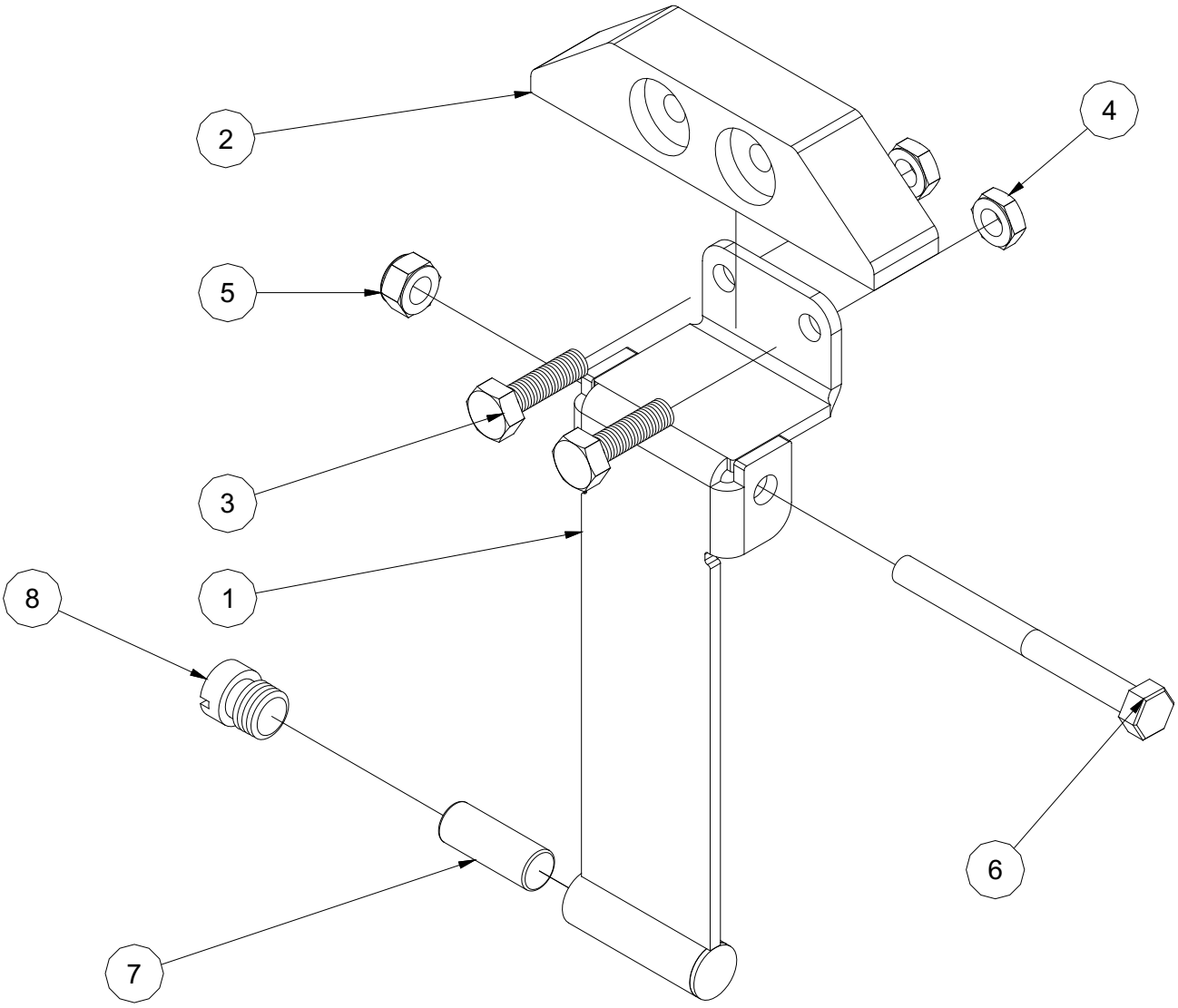
Drive Rod Hole Cover
05700-003-75-68



Pawl Bar Drive Linkage
09515-021-87-73

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Top Guide Block	05700-011-69-49
2	1	Bottom Guide Block	05700-011-69-50
3	1	Pawl Bar Gutter Weldment	05700-021-66-86
4	1	Drive Gutter Gasket (not shown)	05330-011-68-55
	1	Gutter Weldment Replacement Kit (w/Hardware)	06401-003-09-95
	1	Guide Block Replacement Kit	06401-003-10-15

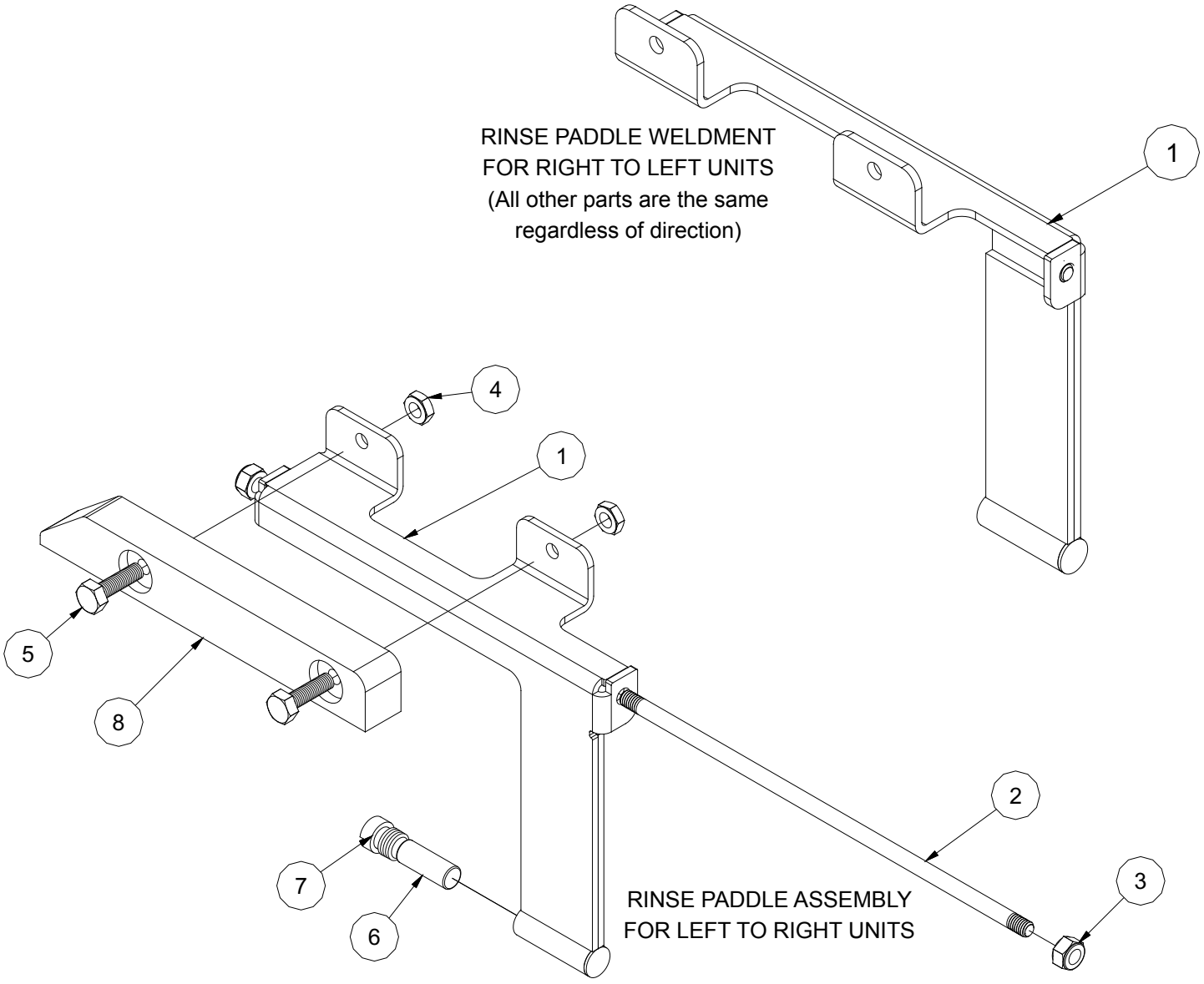
RACK PADDLE ASSEMBLY



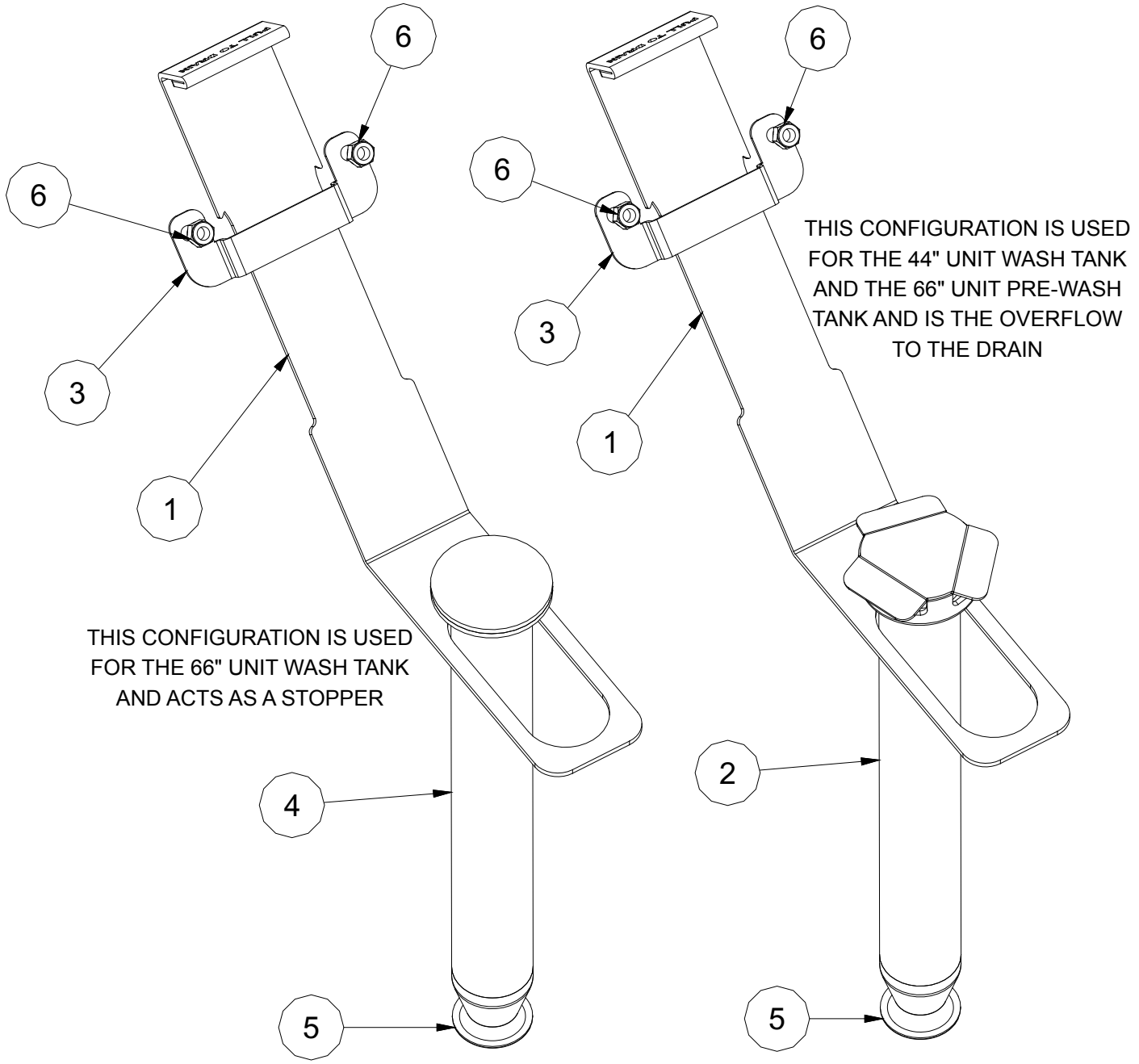
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Rack Paddle Weldment	05700-003-76-71
2	1	Bumper, Rack Paddle	09330-003-74-82
3	2	Screw, 1/4-20 x 7/8" S/S	05305-274-05-00
4	2	Locknut, 1/4-20 Low Profile w/Nylon Insert	05310-374-02-00
5	1	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
6	1	Screw, 1/4-20 x 2-3/4" Hex Head	05305-003-31-63
7	1	Magnet	05930-003-31-63
8	1	Wash/Rinse End Cap	05700-011-60-92
	1	**Rack Paddle Assembly**	05700-003-76-74

PARTS

RINSE PADDLE ASSEMBLY



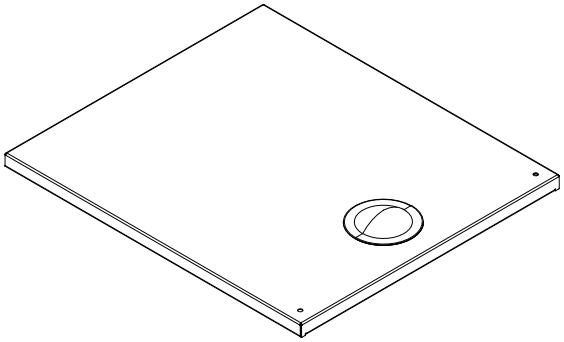
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Rinse Paddle Weldment (Left to Right) (Right to Left)	05700-003-81-91 05700-003-81-96
2	1	Stud, 1/4-20 x 8.50" Long, S/S, Double Ended Thread	05306-003-76-31
3	2	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
4	2	Locknut, 1/4-20 Low Profile w/Nylon Insert	05310-374-02-00
5	4	Screw, 1/2-20 x 7/8" Hex Head, S/S	05305-274-05-00
6	4	Magnet	05930-003-31-63
7	1	End Cap	05700-011-60-92
8	1	Bumper, Rinse Paddle	09330-003-81-04
	1	**Rinse Paddle Assembly (Left to Right)** **(Right to Left)**	05700-003-81-92 05700-003-81-95



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Drain Handle	05700-003-83-66
2	1	Drain Standpipe (Overflow)	05700-003-75-55
3	2	Drain Handle Bracket	05700-003-83-67
4	2	Drain Standpipe	05700-003-82-76
5	1	O-Ring	05330-400-05-00
6	2	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00

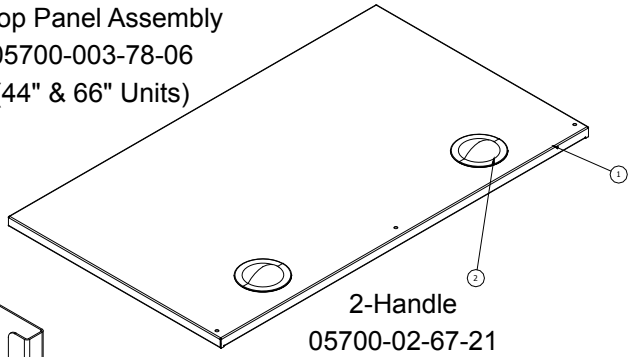
PARTS

COVERS, GUARDS & PANELS

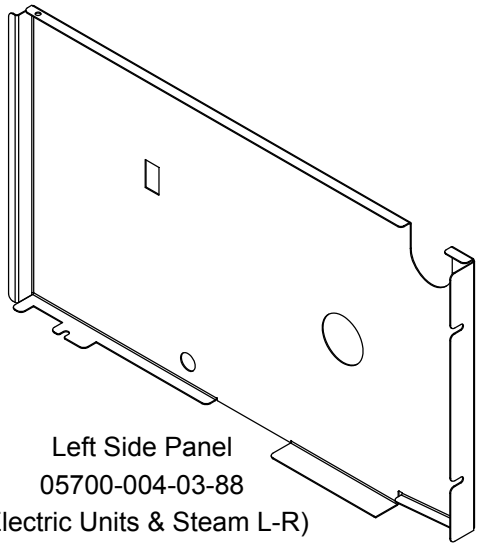


Pre-Wash Top Panel Assembly
05700-003-82-49

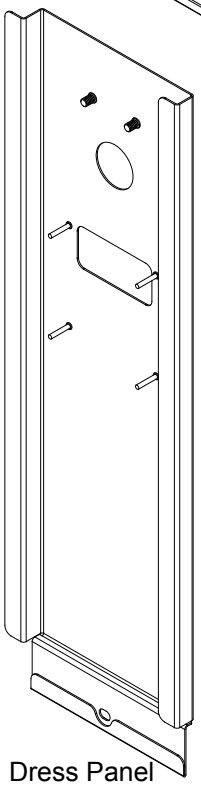
1-Top Panel Assembly
05700-003-78-06
(44" & 66" Units)



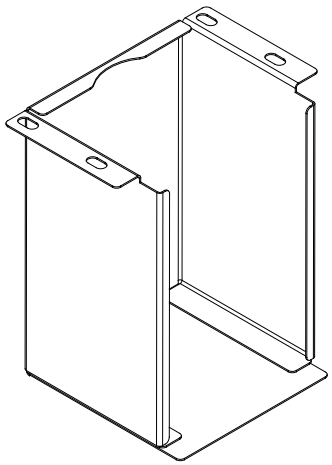
2-Handle
05700-02-67-21



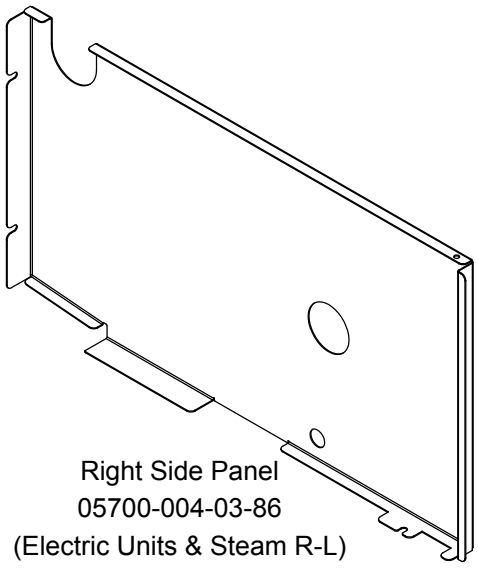
Left Side Panel
05700-004-03-88
(Electric Units & Steam L-R)
05700-003-83-87
(Steam R-L)



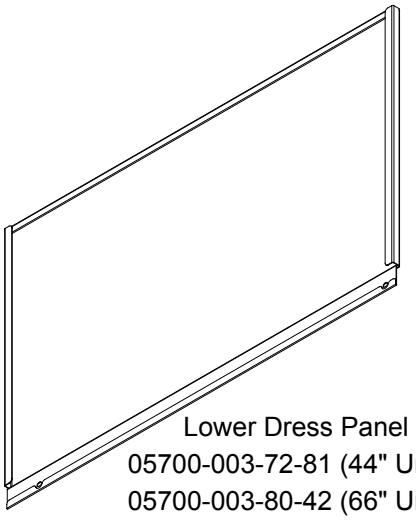
Control Dress Panel



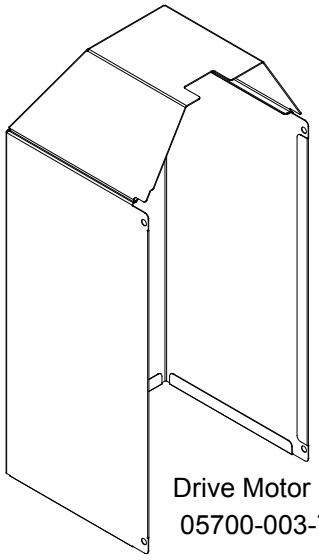
Cover, Wash Heater
05700-003-74-73
(Electrically Heated Units Only)



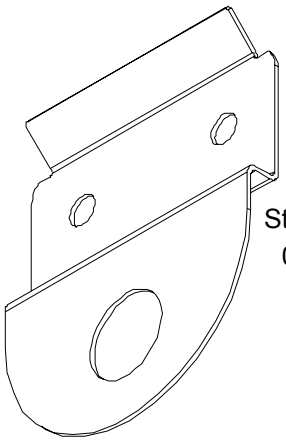
Right Side Panel
05700-004-03-86
(Electric Units & Steam R-L)
05700-003-83-71
(Steam L-R Units)



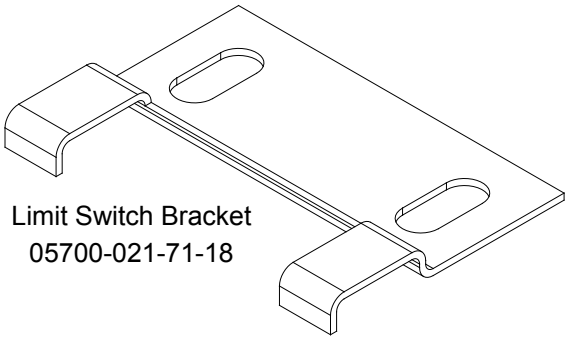
Lower Dress Panel
05700-003-72-81 (44" Units)
05700-003-80-42 (66" Units)



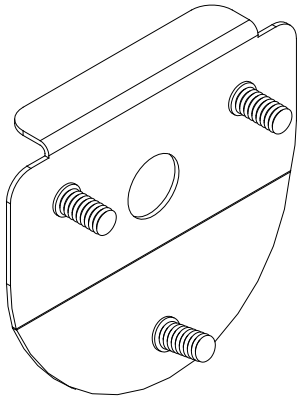
Drive Motor Guard
05700-003-79-45



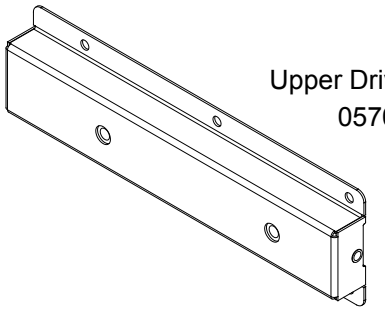
Start Switch Bracket
05700-003-74-65



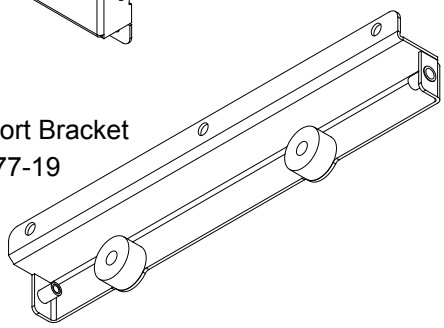
Limit Switch Bracket
05700-021-71-18



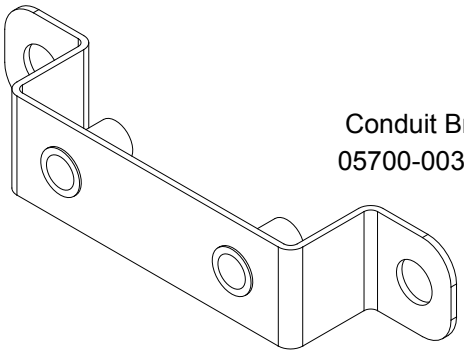
Fill Tube Bracket
05700-003-79-55



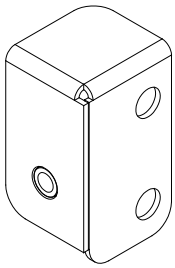
Upper Drive Support Bracket
05700-003-77-18



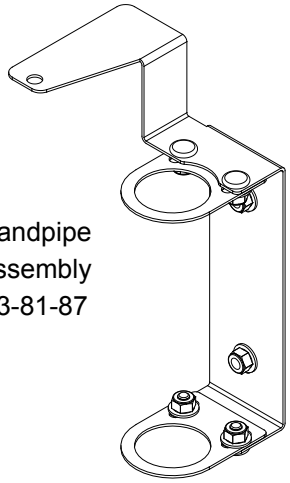
Lower Drive Support Bracket
05700-003-77-19



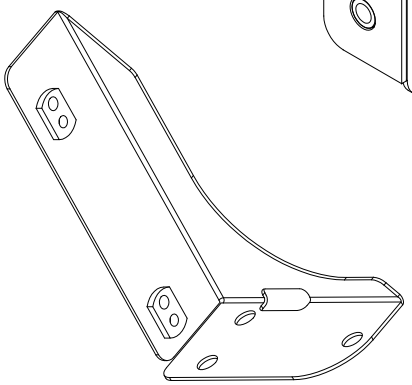
Conduit Bracket
05700-003-77-87



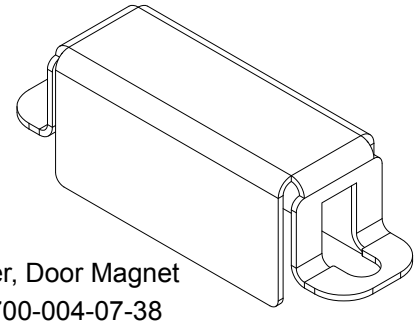
Panel Bracket, Right
05700-003-78-14



Float & Standpipe
Bracket Assembly
05700-003-81-87



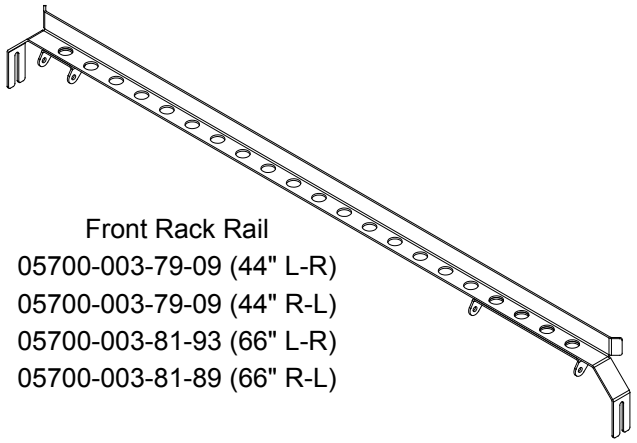
Panel Bracket, Left
05700-003-78-13



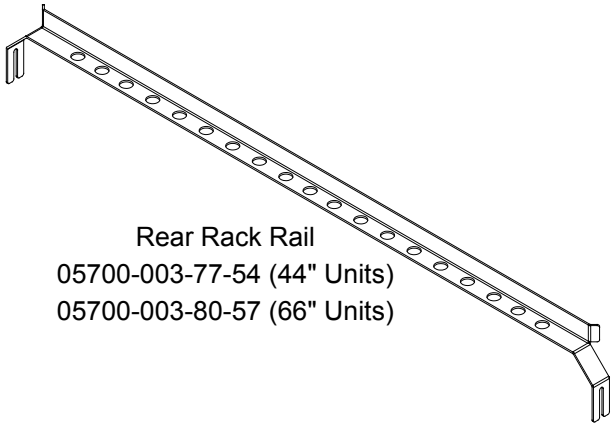
Cover, Door Magnet
05700-004-07-38

PARTS

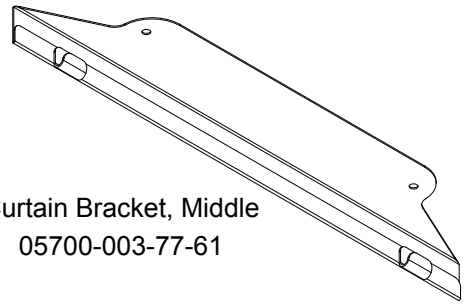
MISCELLANEOUS PARTS



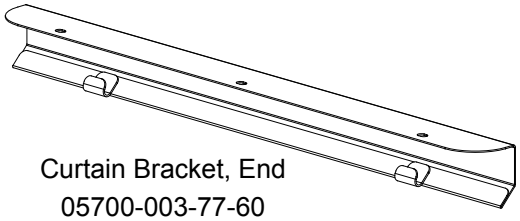
Front Rack Rail
05700-003-79-09 (44" L-R)
05700-003-79-09 (44" R-L)
05700-003-81-93 (66" L-R)
05700-003-81-89 (66" R-L)



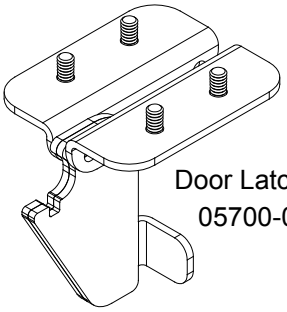
Rear Rack Rail
05700-003-77-54 (44" Units)
05700-003-80-57 (66" Units)



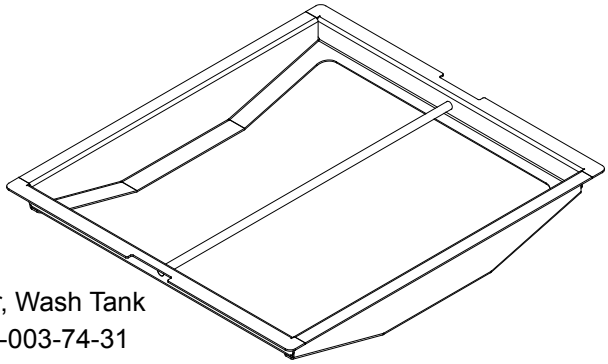
Curtain Bracket, Middle
05700-003-77-61



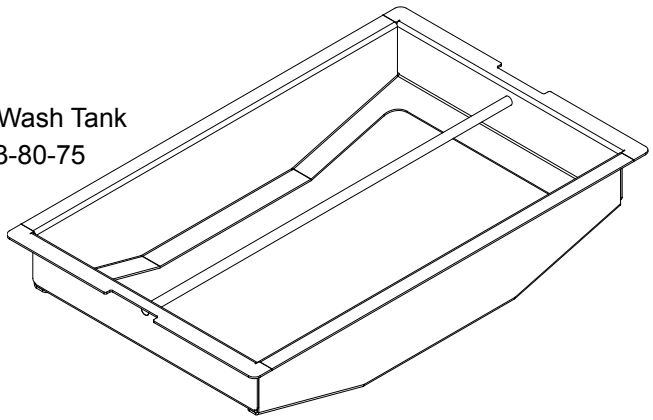
Curtain Bracket, End
05700-003-77-60



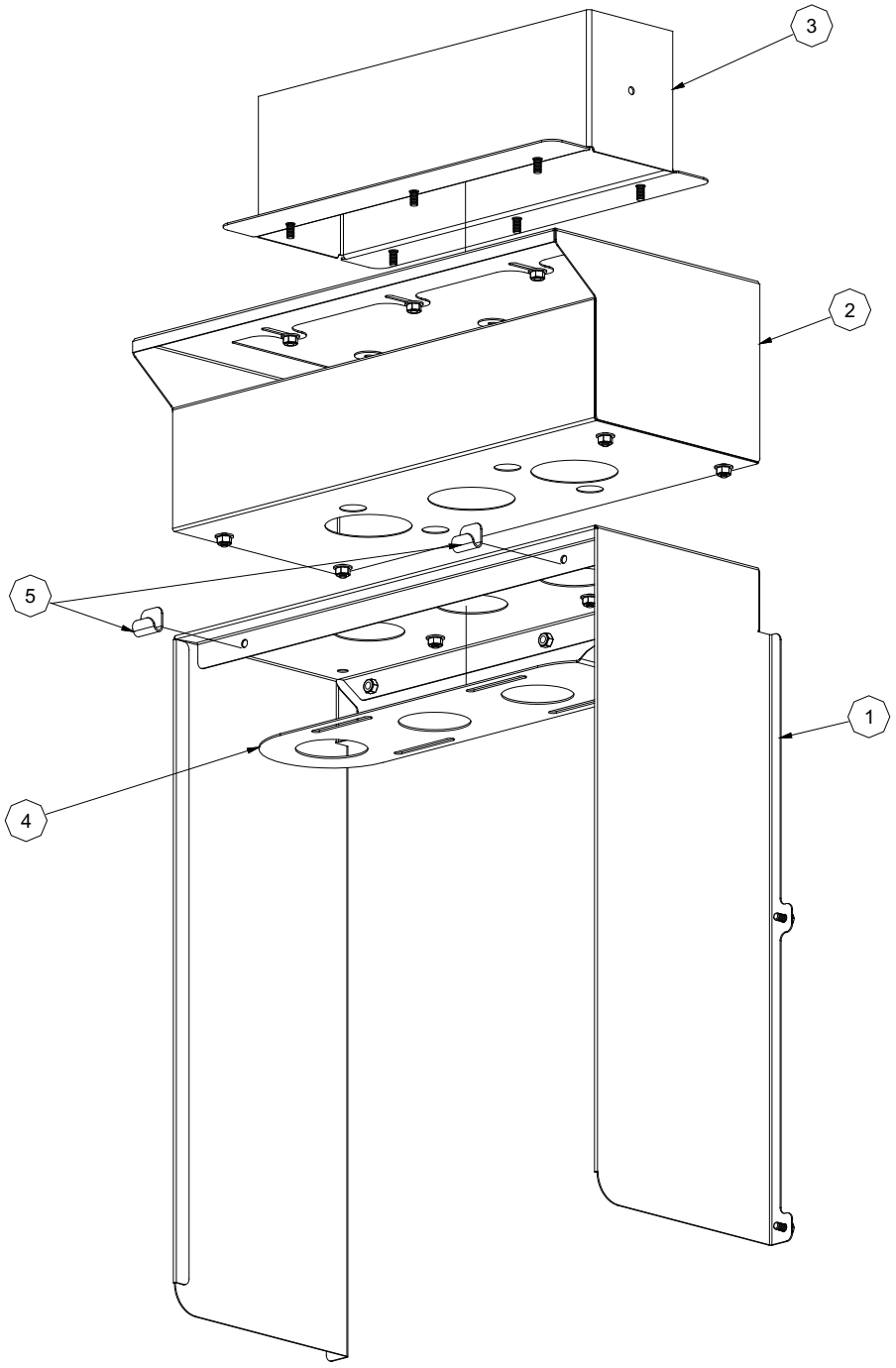
Door Latch Assembly
05700-003-75-76



Strainer, Wash Tank
05700-003-74-31



Strainer, Pre-Wash Tank
05700-003-80-75

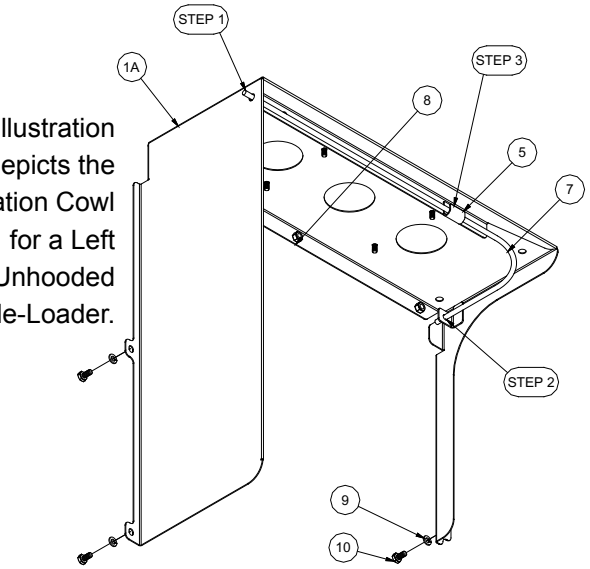


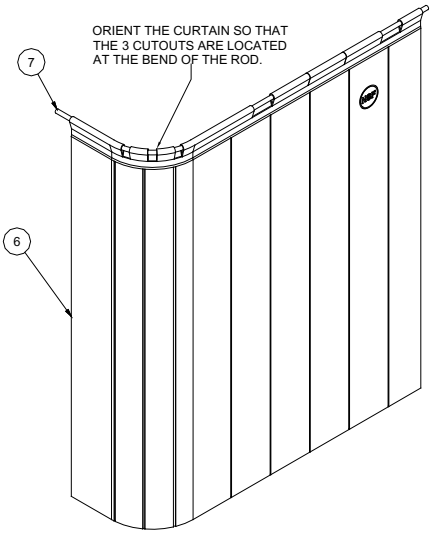
ITEM	QTY	DESCRIPTION	PART NUMBER
1	2 1 1	Ventilation Cowl Ventilation Cowl, Left Side (for Door Accent Panel option) Ventilation Cowl, Right Side (for Door Accent Panel option)	05700-003-77-50 05700-003-75-77 05700-003-75-78
2	2	Ventilation Scoop	05700-003-75-74
3	2	Ventilation Duct Adapter	05700-003-75-73
4	2	Damper, Ventilation Scoop	05700-003-74-76
5	4	Curtain Hook	05700-003-17-98

PARTS

VENTILATION COWL FOR UNHOODED SIDE-LOADER OPTION

This illustration depicts the Ventilation Cowl for a Left Unhooded Side-Loader.





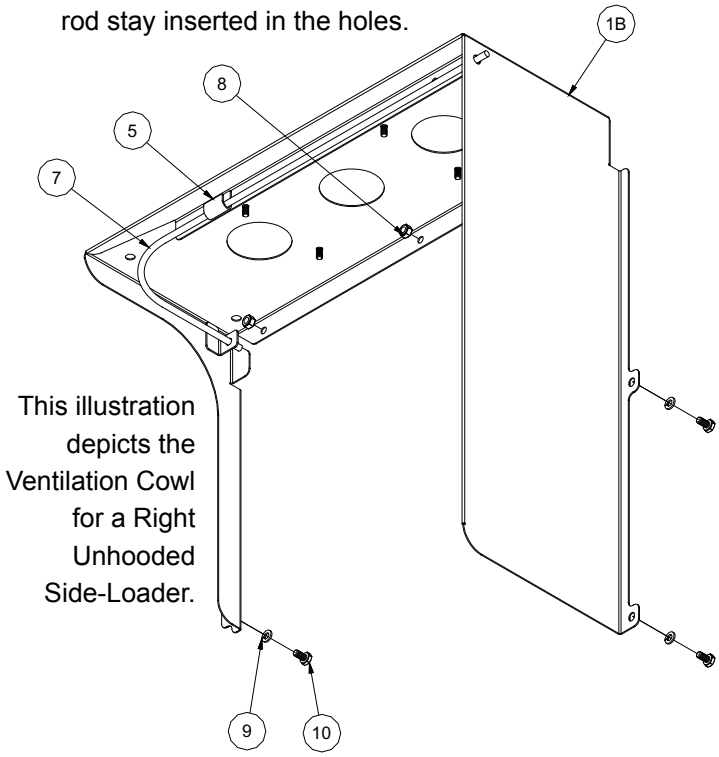
To attach the curtain and rod to the Ventilation Cowl, ensure that the curtain is oriented as depicted and follow the steps below:

1. Insert the rod into the hole at the rear of the Ventilation Cowl.

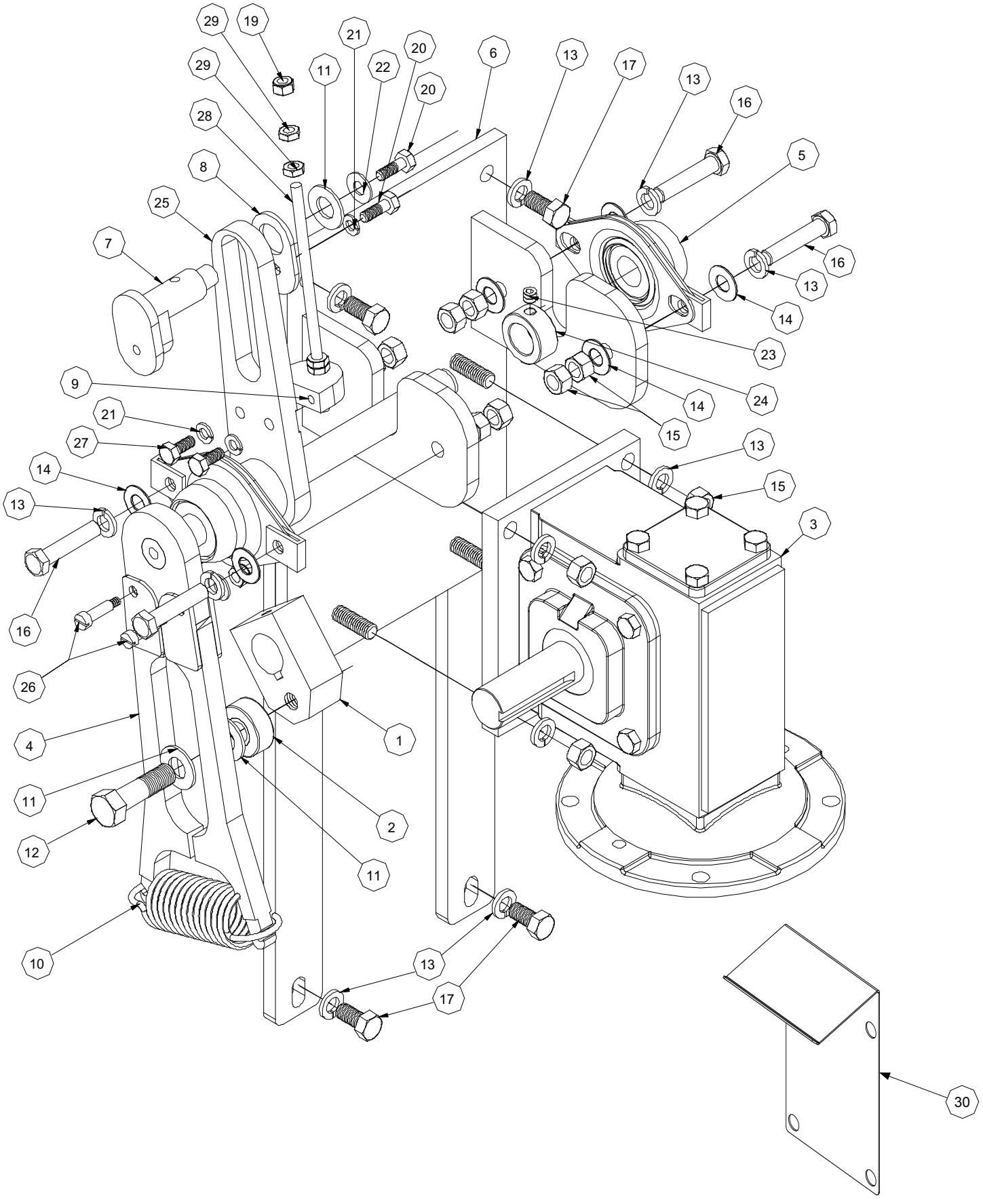
2. Insert the rod into the bracket at the front of the Ventilation Cowl.

3. Gently lift the rod at the curtain cutout over and onto the curtain hook ensuring that the ends of the rod stay inserted in the holes.

This illustration depicts the Ventilation Cowl for a Right Unhooded Side-Loader.



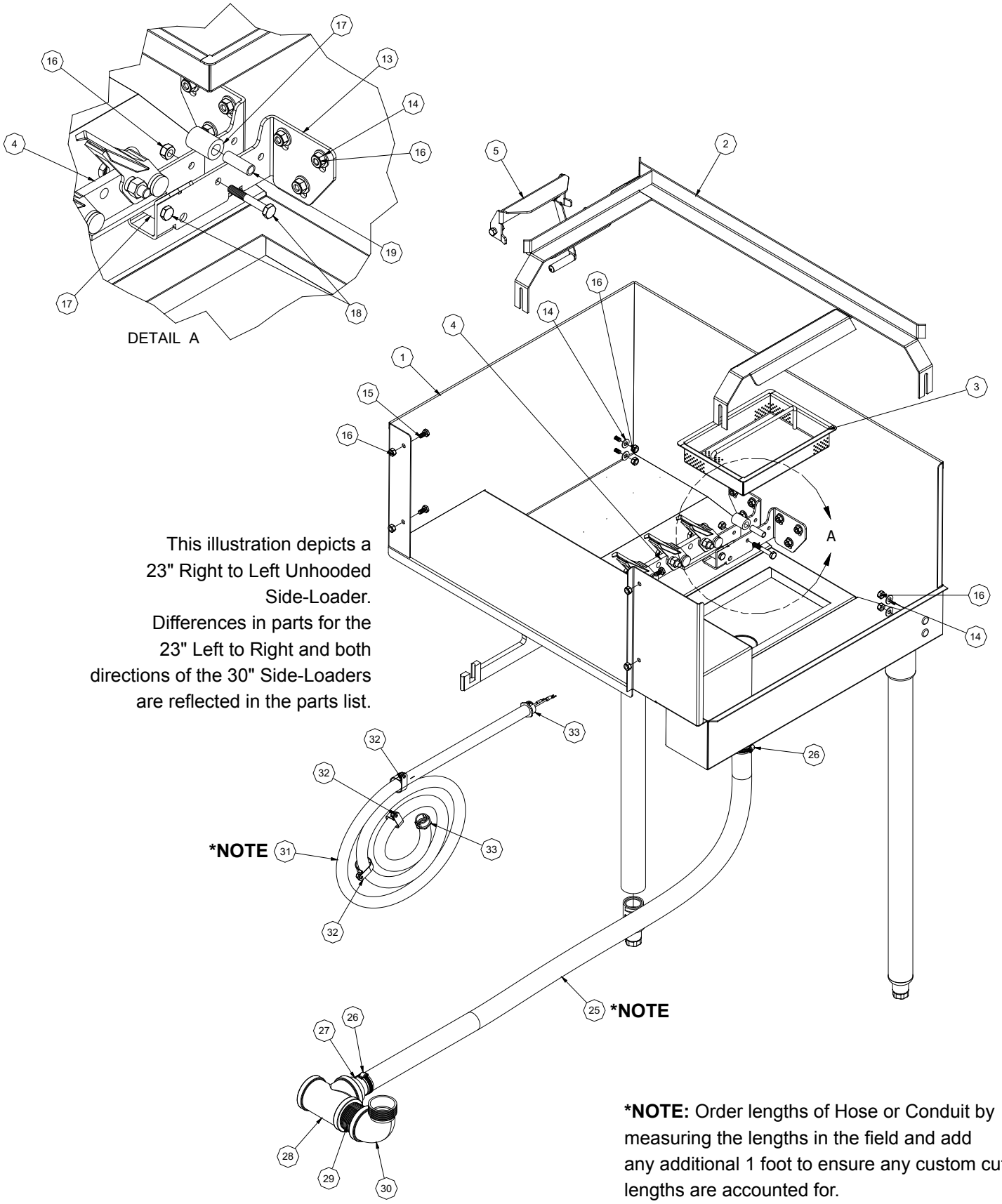
ITEM	QTY	DESCRIPTION	PART NUMBER
1A 1B	1 1	Ventilation Cowl w/Cutout for Left Side Loader Ventilation Cowl w/Cutout for Right Side Loader	05700-003-84-67 05700-003-84-66
2	1	Ventilation Scoop (not shown)	05700-003-75-74
3	1	Ventilation Duct Adapter (not shown)	05700-003-75-73
4	1	Damper, Ventilation Scoop (not shown)	05700-003-74-76
5	2	Curtain Hook	05700-003-86-10
6	1	Curtain, XL for Side-Loader	08415-003-84-88
7	1	Curtain Rod	05700-003-84-57
8	3	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
9	3	Lockwasher, 1/4" Spring	05311-274-01-00
10	3	Bolt, 1/4-20 x 1/2" Long	05305-274-02-00


29
19
21
20
6
13
17
13
16
29
11
22
20
28
5
8
25
16
7
13
14
23
24
9
14
15
21
27
13
14
15
13
3
16
26
1
4
11
2
12
11
10
13
17
30

PARTS

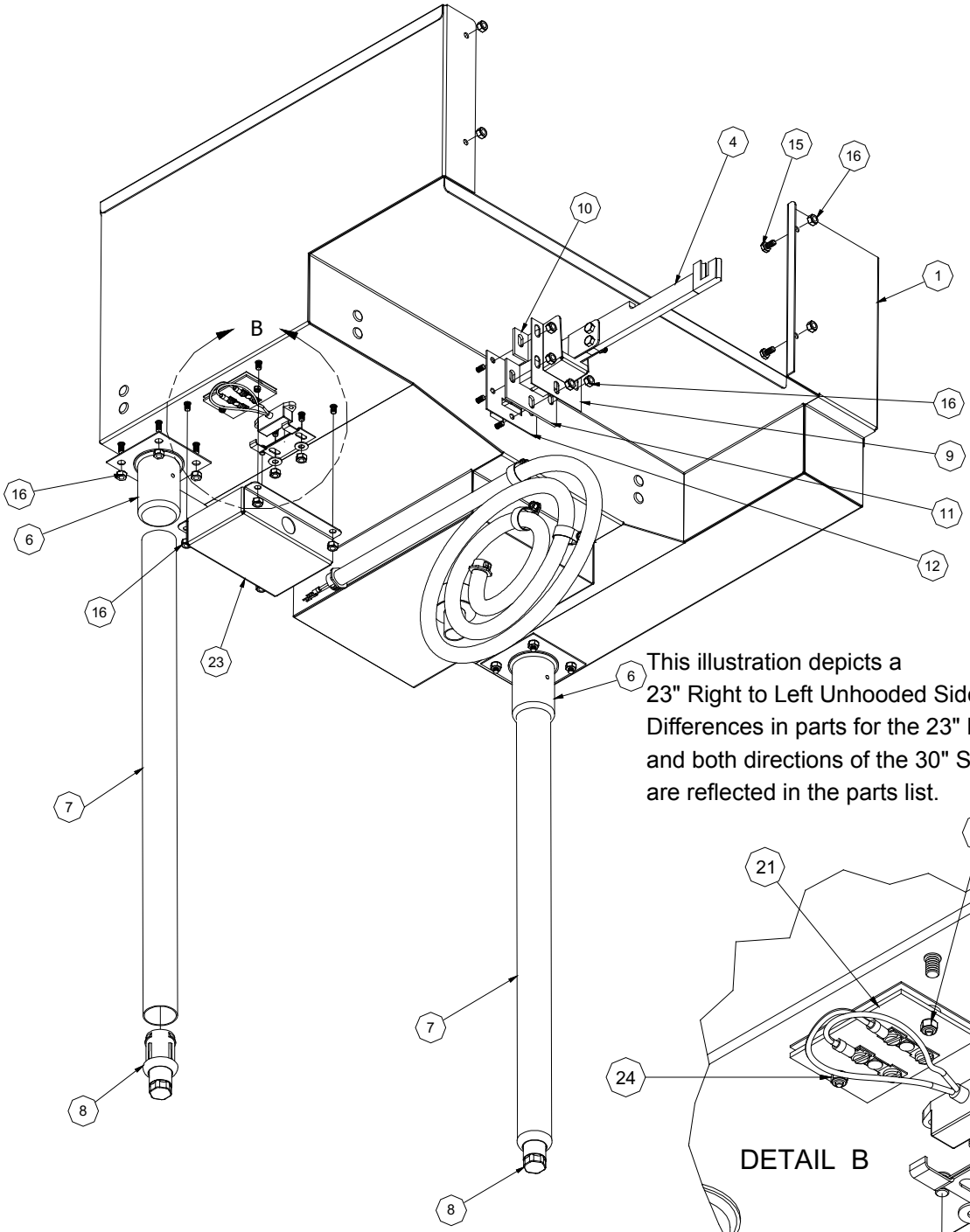
DRIVE ASSEMBLY

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Hub, Drive	05700-011-67-97
2	1	Bearing, Roller	03120-011-71-81
3	1	Gear, 50/1 Drive Motor	06105-011-71-88
4	2	Coupling & Expansion Legs Weldment	05700-021-67-50
5	1	Block, Pillow	03120-021-71-87
6	1	Drive Support Weldment	05700-003-75-61
7	1	Socket, Drive	05700-021-67-39
8	1	Plate, Spacer	05700-011-67-58
9	1	Plate, Drive Rod	05700-021-67-42
10	1	Spring, Drive	05315-011-83-51
11	3	Washer, 1/2" Flat S/S	05311-011-71-93
12	1	Bolt, 1/2-13 x 1-3/4"	05305-011-71-94
13	12	3/8" Lockwasher	05311-276-01-00
14	8	Washer, 3/8" Flat S/S	05311-176-01-00
15	12	Nut, Hex 3/8-16 S/S	05310-276-01-00
16	4	Bolt, 3/8-16 x 1-3/4" Long	05306-011-36-94
17	4	3/8-16 x 1-3/4" Long	05306-011-71-60
18	2	Washer, S/S 1/4-20 (not shown)	05311-174-01-00
19	4	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
20	2	Bolt, Hex Head, 1/4-20 x 3/4"	05305-274-04-00
21	3	Lockwasher, Spring 1/4"	05311-274-01-00
22	1	Washer, 5/16-18 S/S	05311-175-01-00
23	1	Set Screw, 5/16-18 x 1/4"	05305-002-98-39
24	1	Collar, Shaft Conveyer Drive	05700-011-89-18
25	1	Drive Lever Weldment	05700-003-78-03
26	2	Screw, 10-32 x .75 Shoulder .25	05305-011-86-65
27	2	Screw, 1/4-20 x 5/8" S/S Hex Head	05305-274-24-00
28	1	Stud, 1/4-20 x 5.75" All Thread	05307-003-79-67
29	4	Nut, Hex 1/4-20	05310-274-01-00
30	1	Shield, Vent	05700-004-18-73

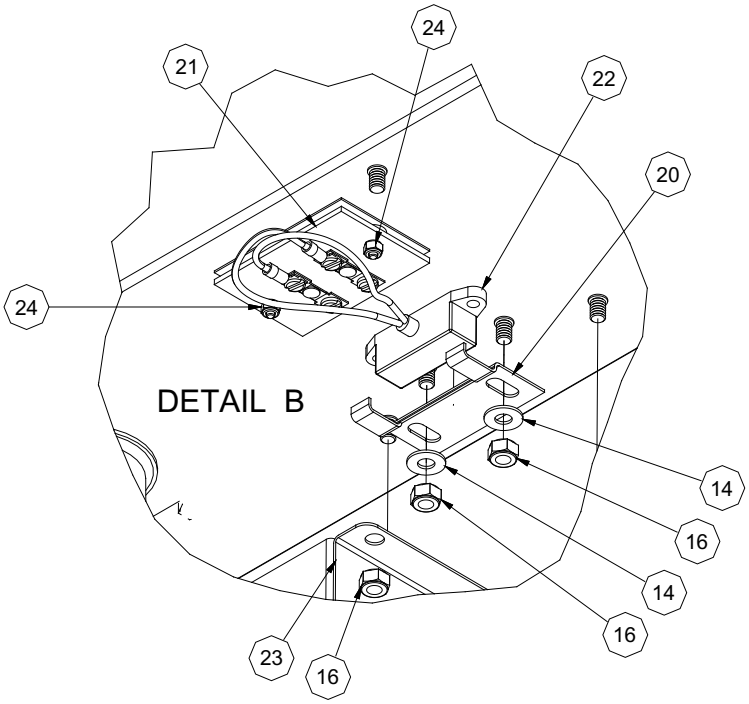


This illustration depicts a 23" Right to Left Unhooded Side-Loader. Differences in parts for the 23" Left to Right and both directions of the 30" Side-Loaders are reflected in the parts list.

***NOTE:** Order lengths of Hose or Conduit by measuring the lengths in the field and add any additional 1 foot to ensure any custom cut lengths are accounted for.



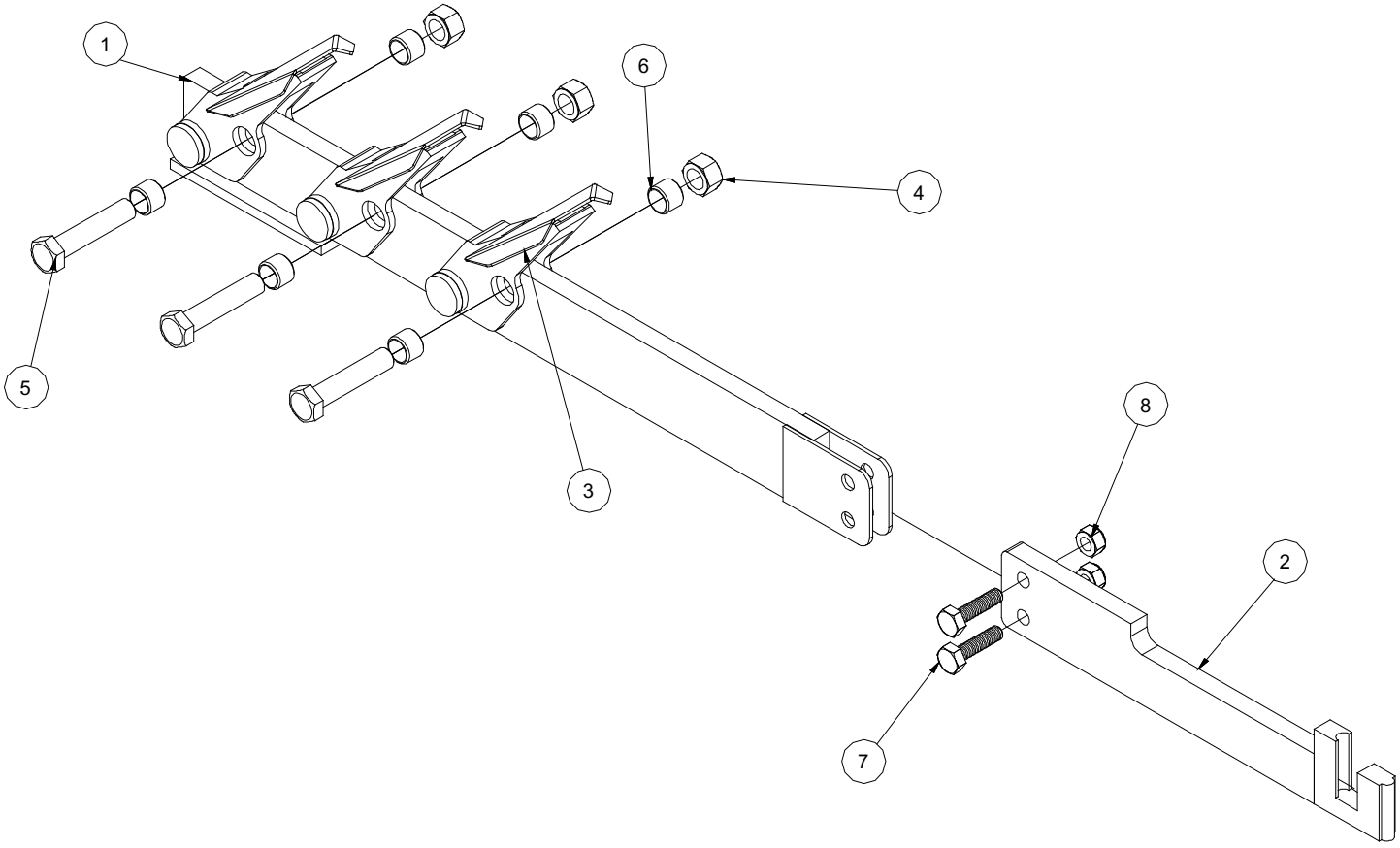
This illustration depicts a
23" Right to Left Unhooded Side-Loader.
Differences in parts for the 23" Left to Right
and both directions of the 30" Side-Loaders
are reflected in the parts list.



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Tub Weldment, 23" Side-Loader L-R Tub Weldment, 23" Side-Loader R-L Tub Weldment, 30" Side-Loader L-R Tub Weldment, 30" Side-Loader R-L	05700-003-84-59 05700-003-84-58 05700-003-88-46 05700-003-88-39
2	1	Rack Support L-R	05700-003-90-00
3	1	Strainer	05700-021-85-10
4	1	Pawl Bar Drive Linkage (see side-loader drive linkage page)	05700-003-84-78
5	1	Actuator Switch Assembly	06401-003-89-96
6	2	Leg Socket	05700-002-56-14
7	2	Support Leg	05700-021-87-59
8	2	Foot, Adjustable	05340-108-01-03
9	1	Gutter, Pawl Bar	05700-021-66-86
10	1	Guide Block Top-Slotted	05700-011-69-49
11	1	Guide Block Bottom-Slotted	05700-011-69-50
12	1	Gasket, Drive Gutter	05330-011-68-55
13	1	Bracket, Loader Pawl Bar Support	05700-003-87-39
14	16	Washer, 1/4" S/S	05311-174-01-00
15	4	Bolt, 1/4-20 x 1/2" Long	05305-274-02-00
16	39	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
17	2	Roller	05700-011-68-16
18	2	Screw, 1/4-20 x 1-3/4" Long Hex Head	05305-274-10-00
19	2	Roller Shaft	05700-011-68-14
20	1	Bracket, Limit Switch	05700-021-71-18
21	1	Terminal Board	05940-011-84-41
22	1	Switch Assembly, Side-Loader, 24VDC	05700-003-87-43
23	1	Cover, Side-Loader Switch	05700-003-87-41
24	2	Locknut, 6-32 Hex w/Nylon Insert	05310-373-03-00
25	*NOTE	Drain Hose, Polybraid 1" (*SEE NOTE ON PG. 55)	*04720-011-69-16
26	2	Hose Clamp (Range: 13/16" to 1-1/2")	04730-719-06-09
27	1	Drain Fitting Weldment	05700-021-84-61
28	1	Tee, 1-1/2" Brass	04730-011-69-93
29	1	Nipple, 1-1/2" Close Brass	04730-207-40-00
30	1	Elbow, 90 Deg Street, Brass 1-1/2"	04730-206-32-00
31	*NOTE	Conduit, 1/2" Flex 2 (*SEE NOTE ON PG. 55)	*05975-003-33-36
32	3	Clamp, 1" Nylon	04730-002-41-88
33	2	Fitting, 1/2" Straight Twist/Snap	05975-003-33-27

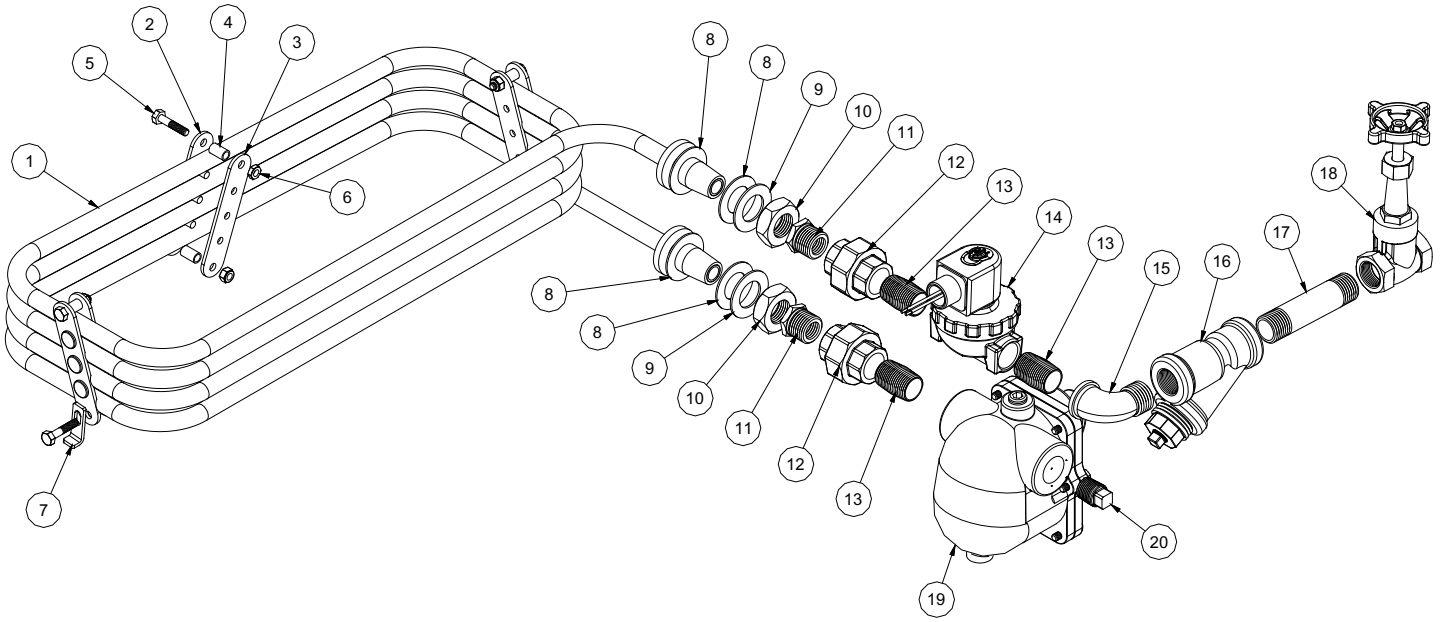
PARTS

SIDE-LOADER DRIVE LINKAGE



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Pawl Bar, Side-Loader	05700-021-86-88
2	1	Drive Linkage, Side-Loader	05700-001-99-16
3	3	Pawl Dog w/Wing	05700-021-86-79
4	3	Locknut, 3/8-16 w/Nylon Insert	05310-011-72-55
5	3	Bolt, 3/8-16 x 1-3/4" Long Hex Head	05306-011-36-94
6	6	Spacer, Pawl Bar Dog	05700-011-71-45
7	3	Screw, 1/4-20 x 1" Long Hex Head	05305-274-27-00
8	3	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00

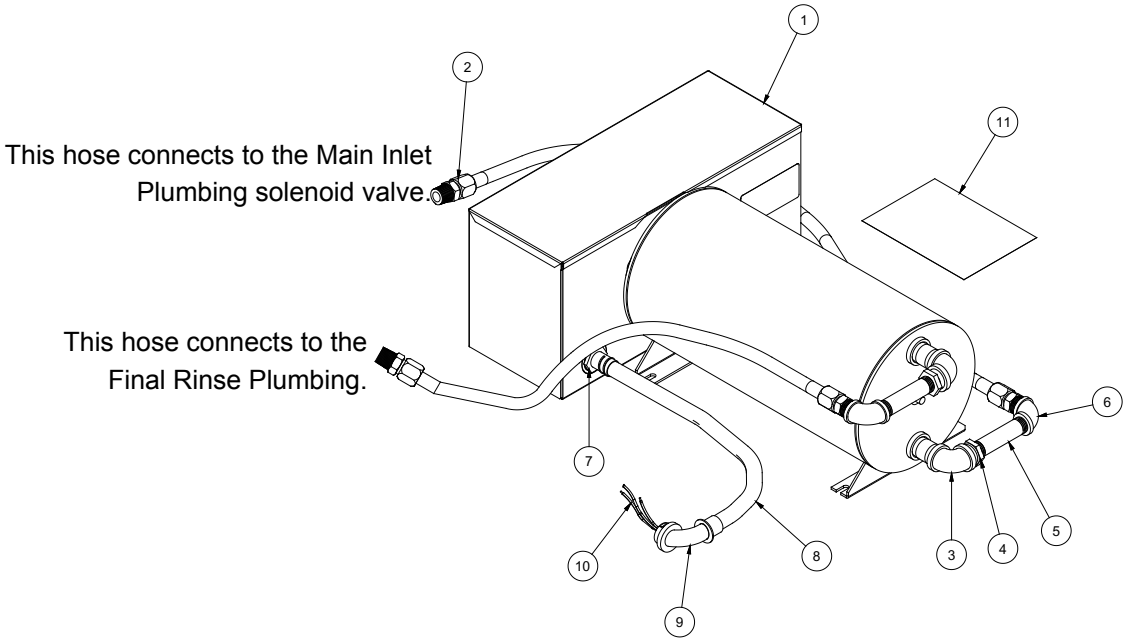
STEAM HEATING COIL ASSEMBLY



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Steam Coil Weldment	05700-003-83-70
2	3	Steam Coil Spacer Weldment	05700-003-83-33
3	3	Plate, Steam Coil Spacer	05700-003-83-32
4	6	Sleeve, 1/4" x 5/8" Long	05700-003-83-35
5	6	Bolt, 1/4-20 x 1-1/4 Hex Head	05305-274-22-00
6	6	Locknut, 1/4-20 Low Profile w/Nylon Insert	05310-374-02-00
7	1	Bracket, Steam Coil Adjustment	05700-003-83-79
8	4	Gasket, Steam Coil	05700-001-17-86
9	2	Washer, Steam Coil Adapter	05700-001-17-87
10	2	Nut, Steam Coil Adapter	05310-011-17-85
11	2	Reducer, 3/4" x 1/2" Black Iron	04730-911-02-34
12	2	Union, 3/4" Black Iron	04730-912-01-00
13	3	Nipple, Close 3/4" Black Iron	04730-907-01-00
14	1	Valve, 3/4" Steam 110V Coil	04820-011-87-39
15	1	Elbow, 3/4" Street, Black Iron	04730-011-87-37
16	1	Y-Strainer, 3/4" Steam	04730-217-01-32
17	1	Nipple, 3/4" x 4" Long, Black Iron	04730-907-02-34
18	1	Valve, Gate 3/4" Steam	04820-100-19-00
19	1	Trap, Steam 3/4"	06680-500-02-77
20	1	Plug, 3/4" Square Head, Black Iron	04730-002-86-59

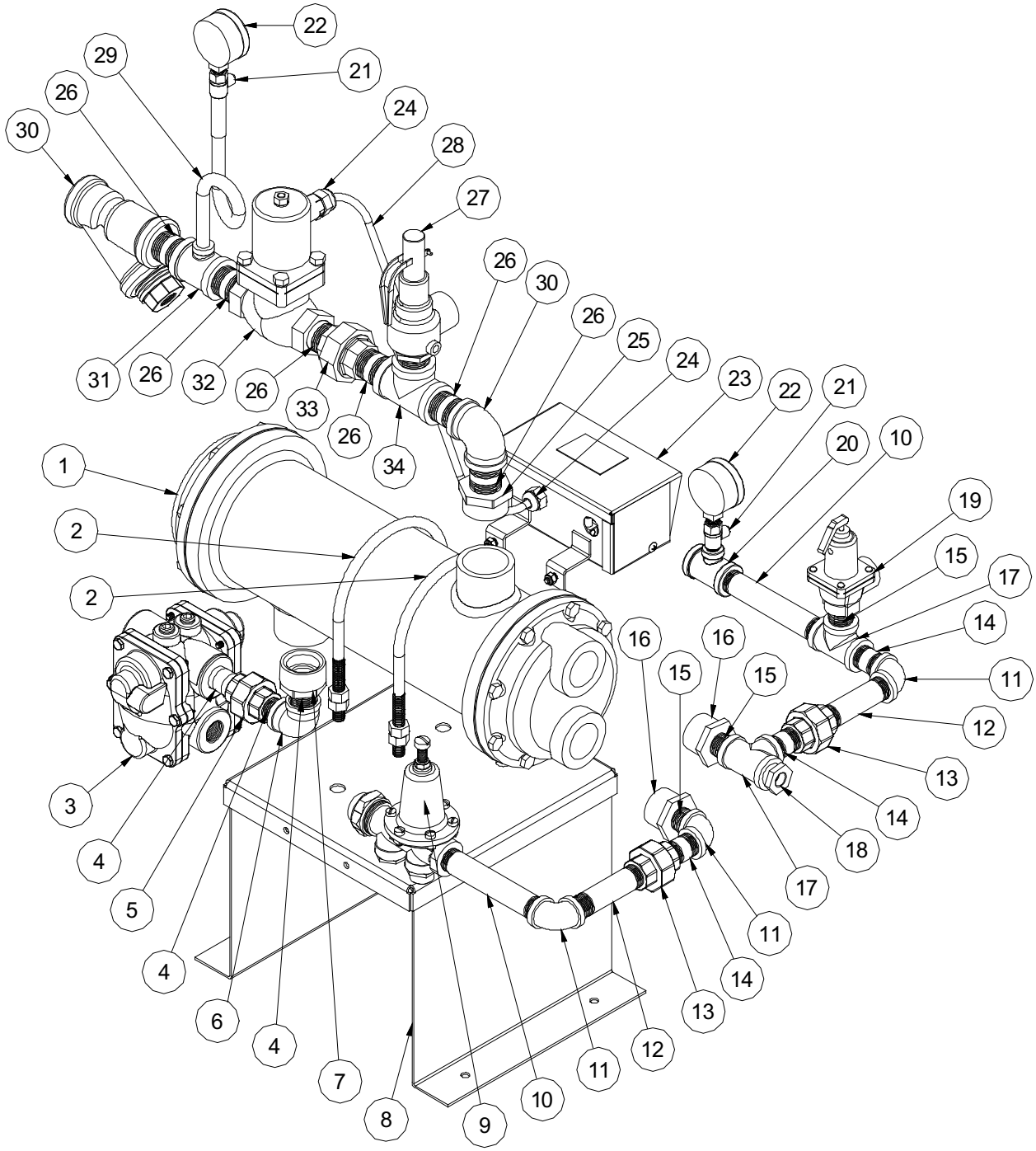
PARTS

BOOSTER HEATER OPTION (ELECTRIC)



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Booster Heater	See Chart Below
2	2	Hose, 1/2" x 42" S/S Braided	04720-003-76-09
3	2	Elbow, 3/4" 90 Deg. Brass	04730-206-13-00
4	2	Bushing, 3/4" x 1/2" Hex Brass	04730-002-56-27
5	2	Nipple, 1/2" x 4" Long Brass	04730-207-04-00
6	2	Elbow, 1/2" 90 Deg. Brass	04730-011-42-96
7	1	Fitting, 3/4" Straight QT Snap	05975-003-77-46
8	1	Conduit, 1/2" x 24" Long	05700-003-79-40
9	1	Fitting, 3/4" 90 Deg. QT Snap	05975-003-77-45
10	3	Wire, 10AWG, Fiberglass, 3'	06145-003-13-97
11	1	Schematic (Refer to Booster Heater Schematic Pages)	

BOOSTER HEATER	PART NUMBER
12 kW (40 degree F Rise) 208V, 3-Phase	04540-003-76-58
12 kW (40 degree F Rise) 240V, 3-Phase	04540-003-76-60
12 kW (40 degree F Rise) 480V, 3-Phase	04540-003-76-62
12 kW (40 degree F Rise) 208V, 1-Phase	04540-003-76-57
12 kW (40 degree F Rise) 240V, 1-phase	04540-003-76-59
17.3 kW (70 degree F Rise) 208V, 3-Phase	04540-003-76-64
18 kW (70 degree F Rise) 240V, 3-Phase	04540-003-76-66
18 kW (70 degree F Rise) 480V, 3-Phase	04540-003-76-68
18 kW (70 degree F Rise) 208V, 1-Phase	04540-003-76-63
18 kW (70 degree F Rise) 240V, 1-Phase	04540-003-76-64

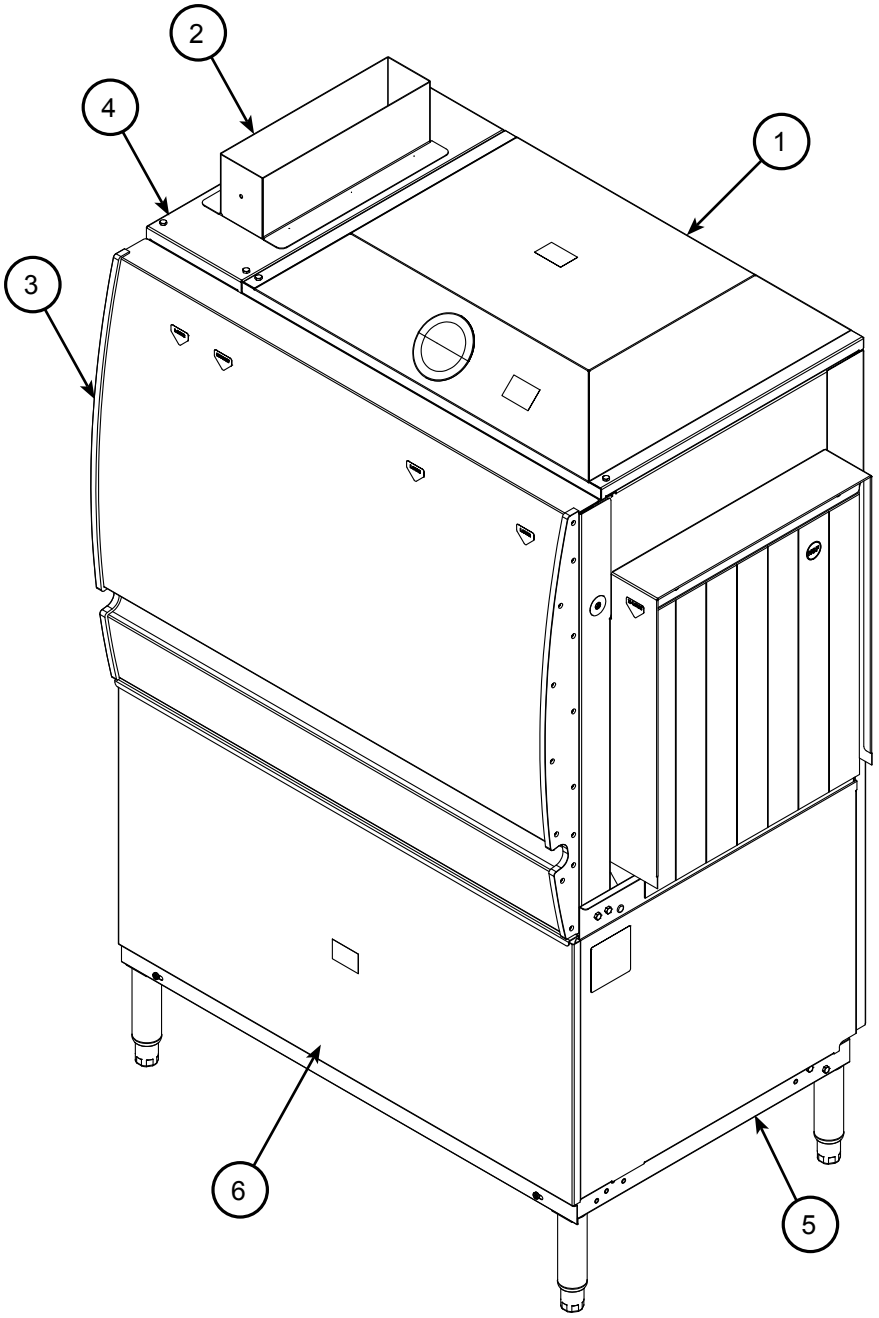


ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Steam Booster Heater, ST-T120	04420-002-43-94
2	2	U-Bolt, 1/2-13 Thread, Zinc Coated	05306-002-89-27
3	1	Steam Trap, 3/4"	06680-500-02-77
4	3	Nipple, Close 3/4" Black Iron	04730-907-01-00
5	1	Union, 3/4" Black Iron	04730-912-01-00

PARTS

STEAM BOOSTER HEATER OPTION

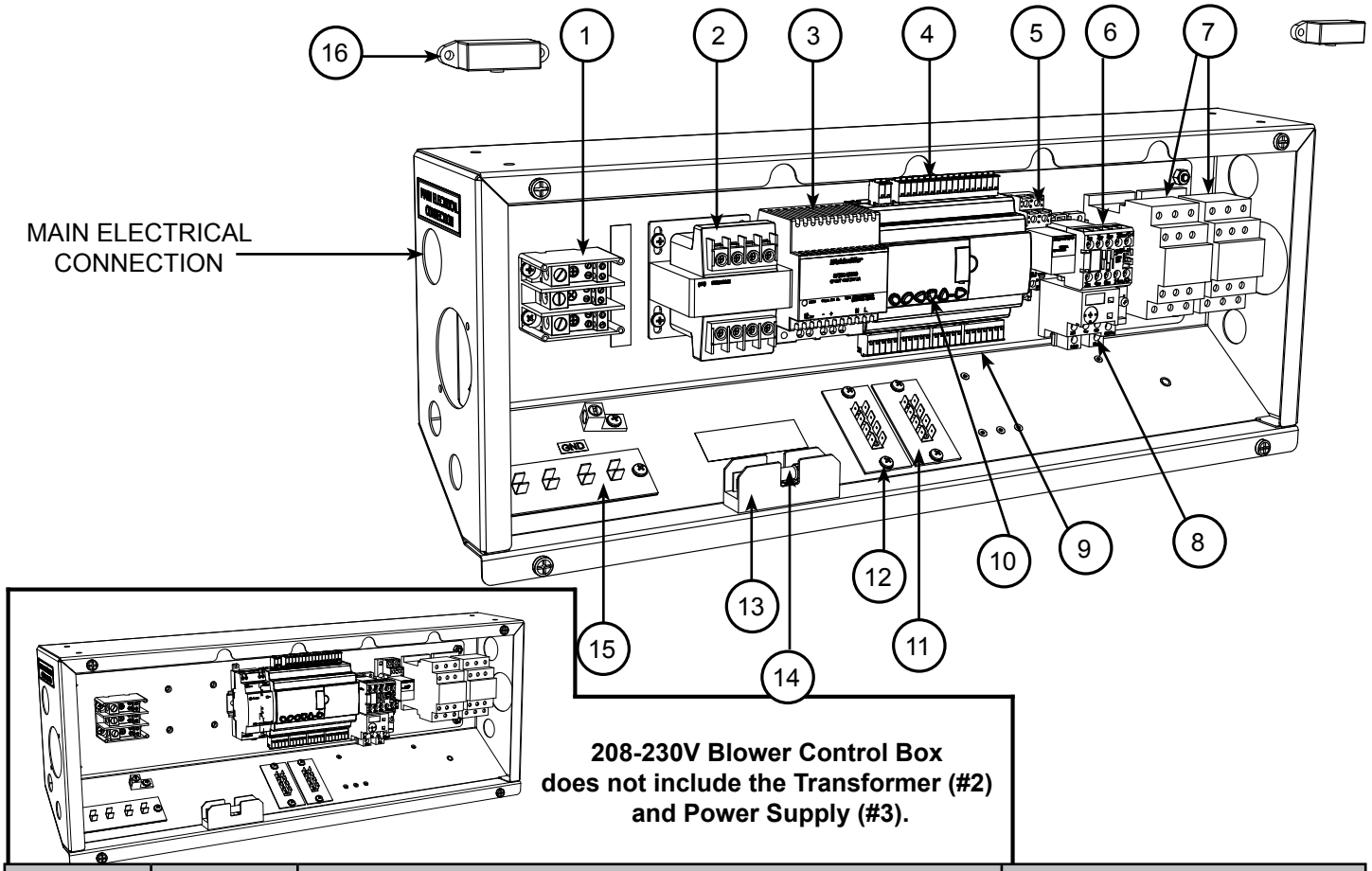
ITEM	QTY	DESCRIPTION	PART NUMBER
6	1	Elbow, 90 Deg. 3/4" Black Iron	04730-906-10-34
7	1	Reducer, 1-1/2" x 3/4" Black Iron	04730-002-36-81
8	1	Platform, J120 Steam Booster	05700-002-36-72
9	1	Regulating Valve, 3/4"	04820-100-01-06
10	2	Nipple, 3/4" x 6" Long Brass	05700-001-26-74
11	3	Elbow, 90 Deg. 3/4" Brass	04730-206-13-00
12	2	Nipple, 3/4" x 4" Long Brass	04730-207-05-00
13	2	Union, 3/4" Brass	04730-212-02-00
14	3	Nipple, 3/4" x 2" Long Brass	04730-207-46-00
15	3	Nipple, Close, 3/4" x 1-3/8" Brass	04730-207-34-00
16	2	Bushing, Hex, 1-1/4" x 3/4" Reducer	04730-011-88-80
17	2	Tee, Brass, 3/4" x 3/4" x 3/4"	04730-211-01-34
18	1	Adapter, 3/8" x 3/4" Brass	04730-011-89-19
19	1	Valve, Steam Relief, 3/4"	04820-100-07-06
20	1	Tee, Brass, 3/4" x 3/4" x 1/4"	04730-211-04-00
21	2	Valve, Ball Test Cock 1/4" Bronze	04810-011-72-67
22	2	Pressure Gauge, 1/4", 0-100 PSI	06685-111-88-34
23 23A 23B 23C 23D 23F	1	Control, J120 Assembly (Major Components Listed Below) Thermostat, Corkscrew Switch Light, Red Indicating Terminal Block, 2-Pole Ground Lug	05700-002-98-95 06680-500-01-77 05930-011-49-55 05945-111-21-57 05940-500-09-61 05940-200-76-00
24	2	Fitting	05975-011-49-03
25	1	Reducer, 1-1/2" x 1" Black Iron	04730-002-36-79
26	6	Nipple, Close 1" x 2" Black Iron	04730-907-08-34
27	1	Elbow, 1", 90 Deg. Black Iron	04730-906-03-34
28	1	Valve, Safety Relief, 1"	04850-100-01-35
29	1	Siphon Tube, Pigtail 1/4" Black Iron	04730-907-14-34
30	1	Coupling, 1/4" Black Iron	04730-904-01-04
31	1	Tee, 1" x 1" x 1/4", Black Iron	04730-911-01-00
32	1	Y-Strainer, 1" Steam Black Iron	04730-217-02-32
33	1	Union, 3/4" Brass	04730-912-01-00
34	1	Valve, 120V, 1" Bronze Steam	04810-002-92-23
35	1	Union, 1" Black Iron	04730-912-01-34
36	1	Tee, 1" Black Iron	04730-911-01-34



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Cover, Blower Assembly	05700-004-01-97
2	1	Ventilation Duct Adapter, Weldment	05700-003-75-73
3	1	DOOR ASSEMBLY, BLOWER	05700-004-00-32
4	1	PANEL WELDMENT, EXHAUST TOP	05700-004-00-61
5	1	PANEL, BLOWER TUB SIDE RIGHT	05700-004-03-93
6	1	Panel, Front Dress	05700-004-01-99
	1	Panel, Blower Hood, Back (not shown)	05700-004-04-38
	1	Panel, Blower Tub Rack (not shown)	05700-004-03-91

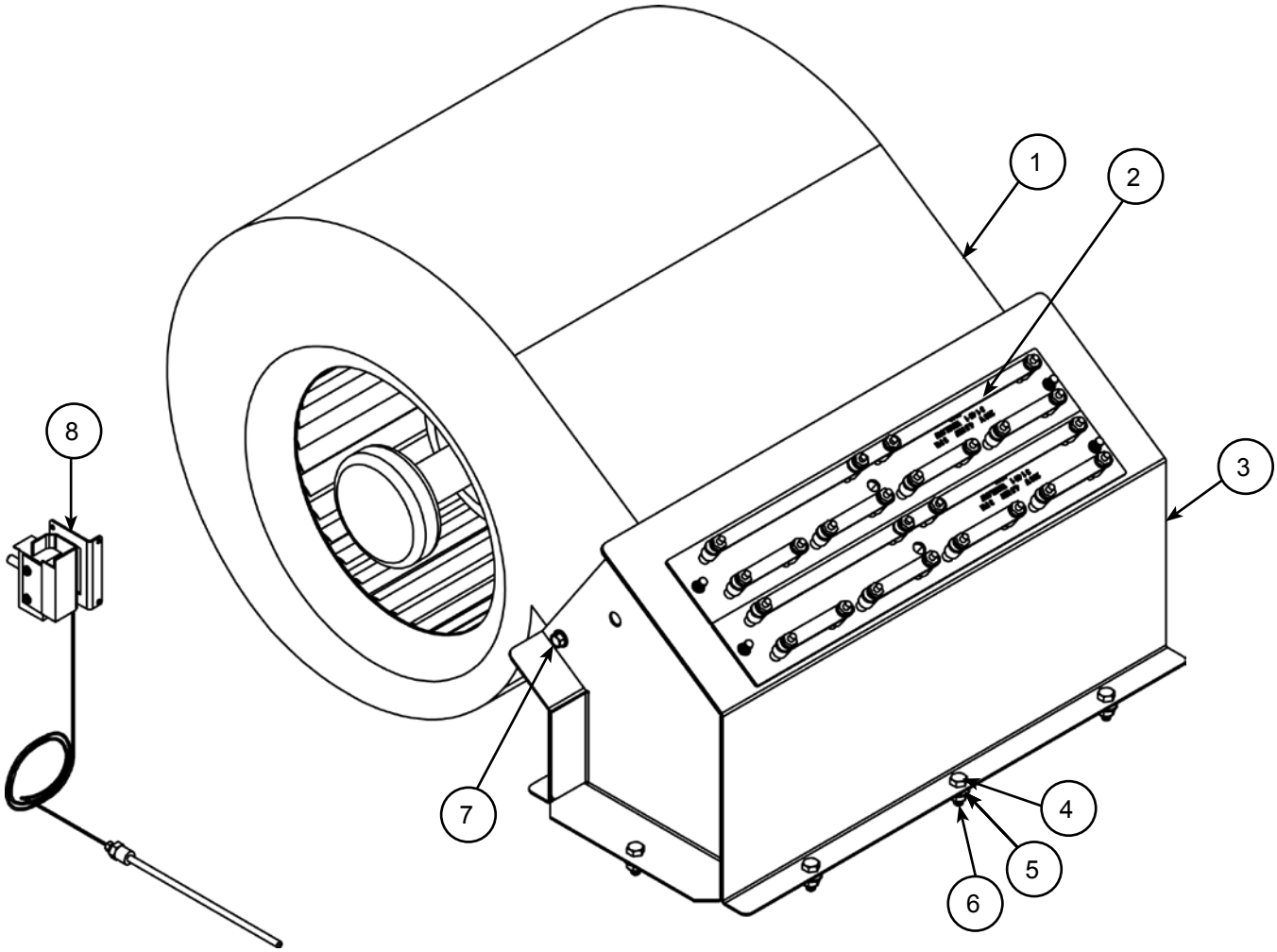
PARTS

BLOWER/DRYER OPTION: CONTROL BOX



208-230V Blower Control Box does not include the Transformer (#2) and Power Supply (#3).

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Terminal Block, 115A, 600V	05940-004-08-35
2	1	Transformer, 208/230/460 to 120 (0.05 KVA)	05940-004-09-18
3	1	Power Supply, 120V, 24VDC, 2A	05950-003-76-32
4	1	Terminals	05700-004-05-08
5	1	Relay Socket, 16A, 300V	05945-003-79-58
6	1	Contactor, 24VDC, 460V, 5HP	05945-003-75-22
7	2	Heater Contactor, 600V, 25A, 24VDC Coil	05945-004-10-63
8	1	Overload, Blower Motor, 460V Overload, Blower Motor, 208V	05945-003-75-17 05945-111-68-40
9	1	Relay, DPDT 24VDC	05945-003-79-57
10	1	PLC	05945-004-01-05
11	2	Terminal Board	05940-021-94-85
12	19	Screw, 10-32 x 1/2" Phillips Pan Head w/Washer	05305-002-32-37
13	1	Holder	05920-011-72-89
14	1	Fuse, 1/2" Amp	05920-011-72-88
15	1	Terminal Board	05940-021-70-74
16	2	Switch	05930-003-76-51



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Blower, 208-230V, 60Hz Dual Cage Blower, 265-460V, 60Hz Dual Cage	06105-002-72-15 06105-002-88-36
2	2	Heater, 4.5kW, 208V Blower Air	04540-002-74-29
3	1	Blower Heater Box, Weldment	05700-004-00-72
4	8	Bolt, Hex Head 1/4-20 x 3/4"	05305-274-04-00
5	8	Washer, S/S, 1/4-20 I.D.	05311-174-01-00
6	8	Locknut, 1/4-20 Hex w/Nylon Insert	05310-374-01-00
7	4	Screw, Self-Drilling, 1/4-14 x 1	05305-003-93-74
8	1	Thermostat, High Limit, 350 Deg. F	05930-003-92-41

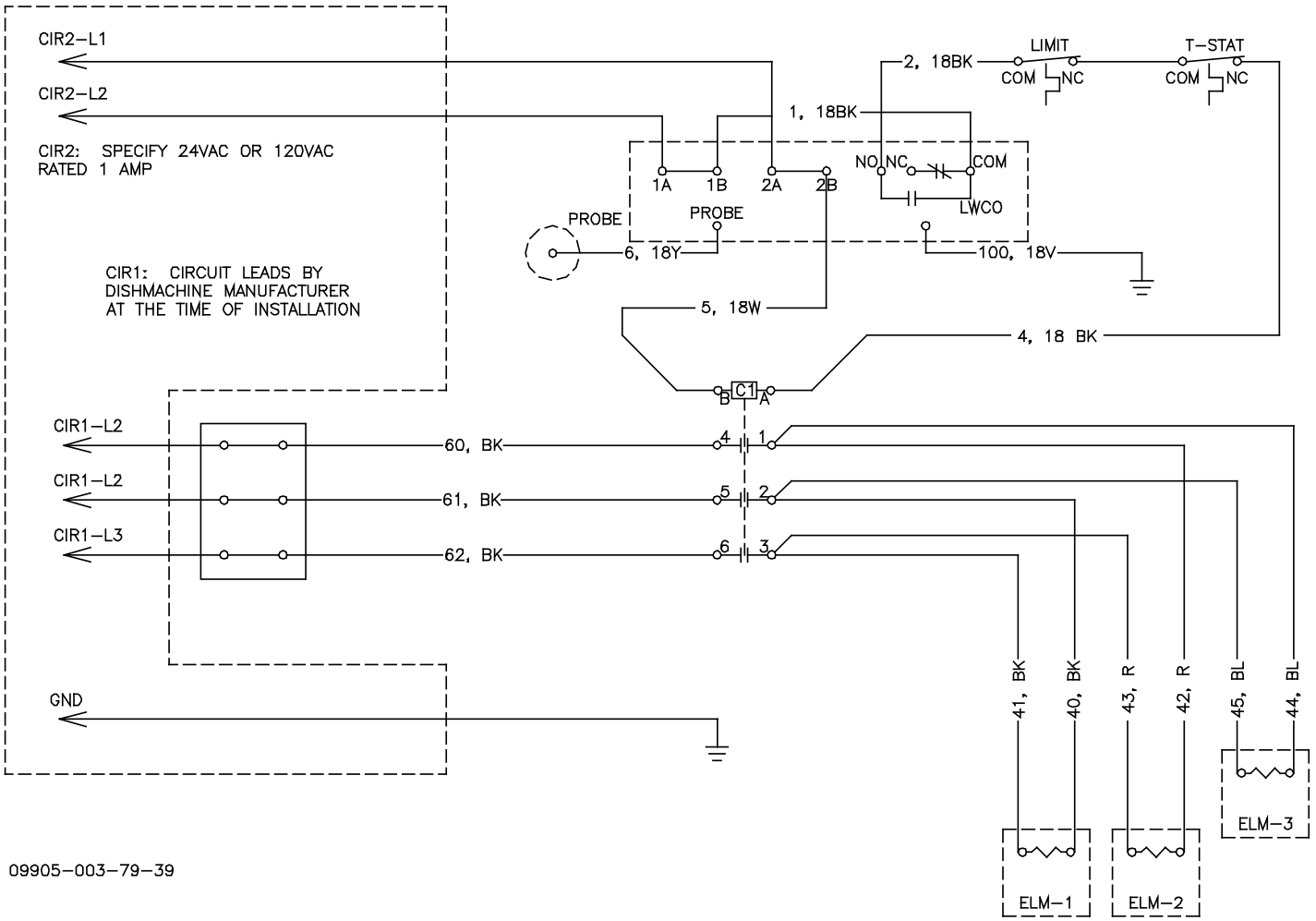
SCHEMATICS

BOOSTER HEATER, 3-PHASE

USE THIS SCHEMATIC FOR THE FOLLOWING BOOSTER HEATER OPTIONS:

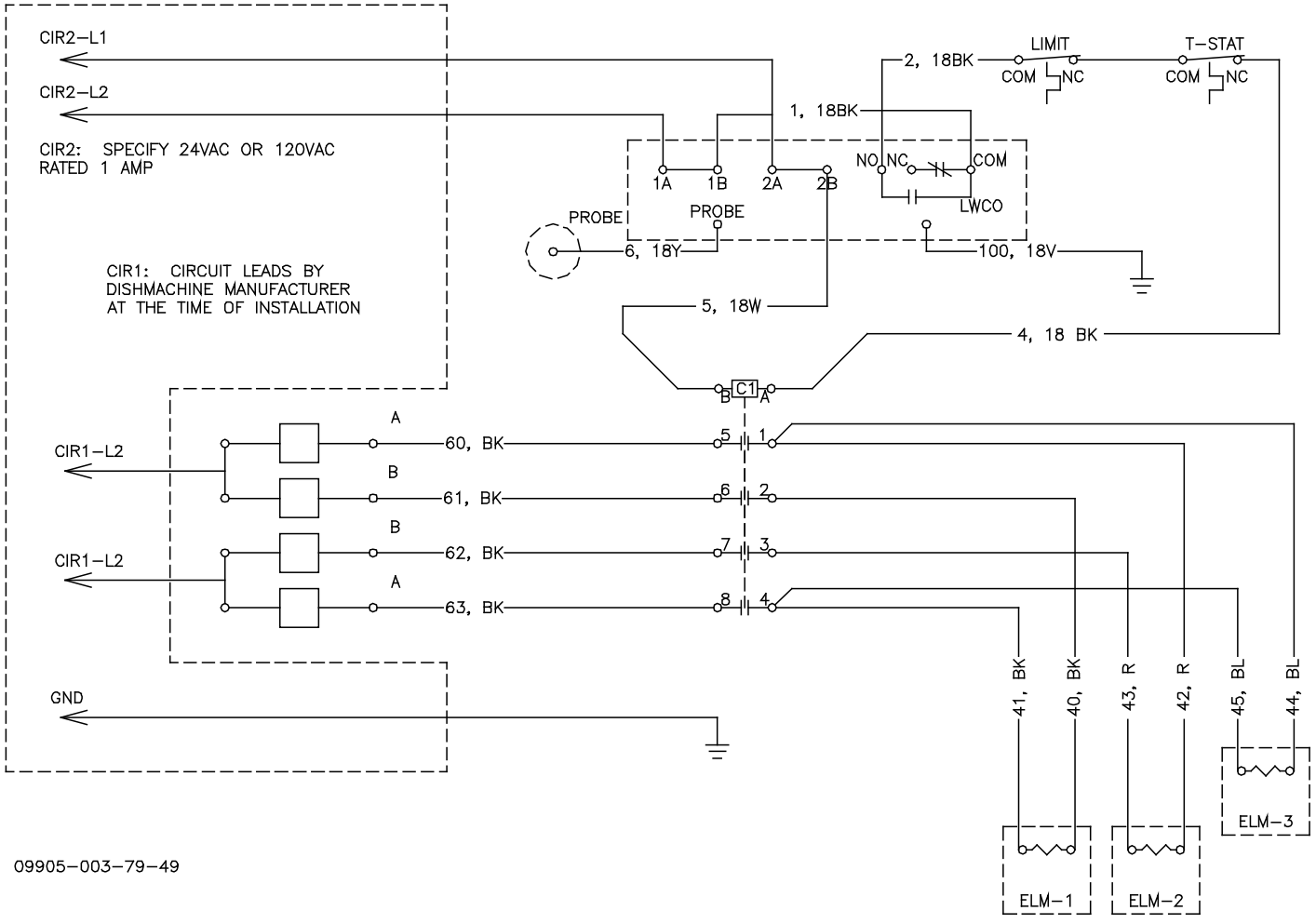
- 208V, 60Hz, 3-Phase, 12 kW, 40° Rise
- 230V, 60Hz, 3-Phase, 12 kW, 40° Rise
- 460V, 60Hz, 3-Phase, 12 kW, 40° Rise

- 208V, 60Hz, 3-Phase, 18 kW, 70° Rise
- 230V, 60Hz, 3-Phase, 18 kW, 70° Rise
- 460V, 60Hz, 3-Phase, 18 kW, 70° Rise



USE THIS SCHEMATIC FOR THE FOLLOWING BOOSTER HEATER OPTIONS:

- 208V, 60Hz, 1-Phase, 12 kW, 40° Rise
- 230V, 60Hz, 1-Phase, 12 kW, 40° Rise

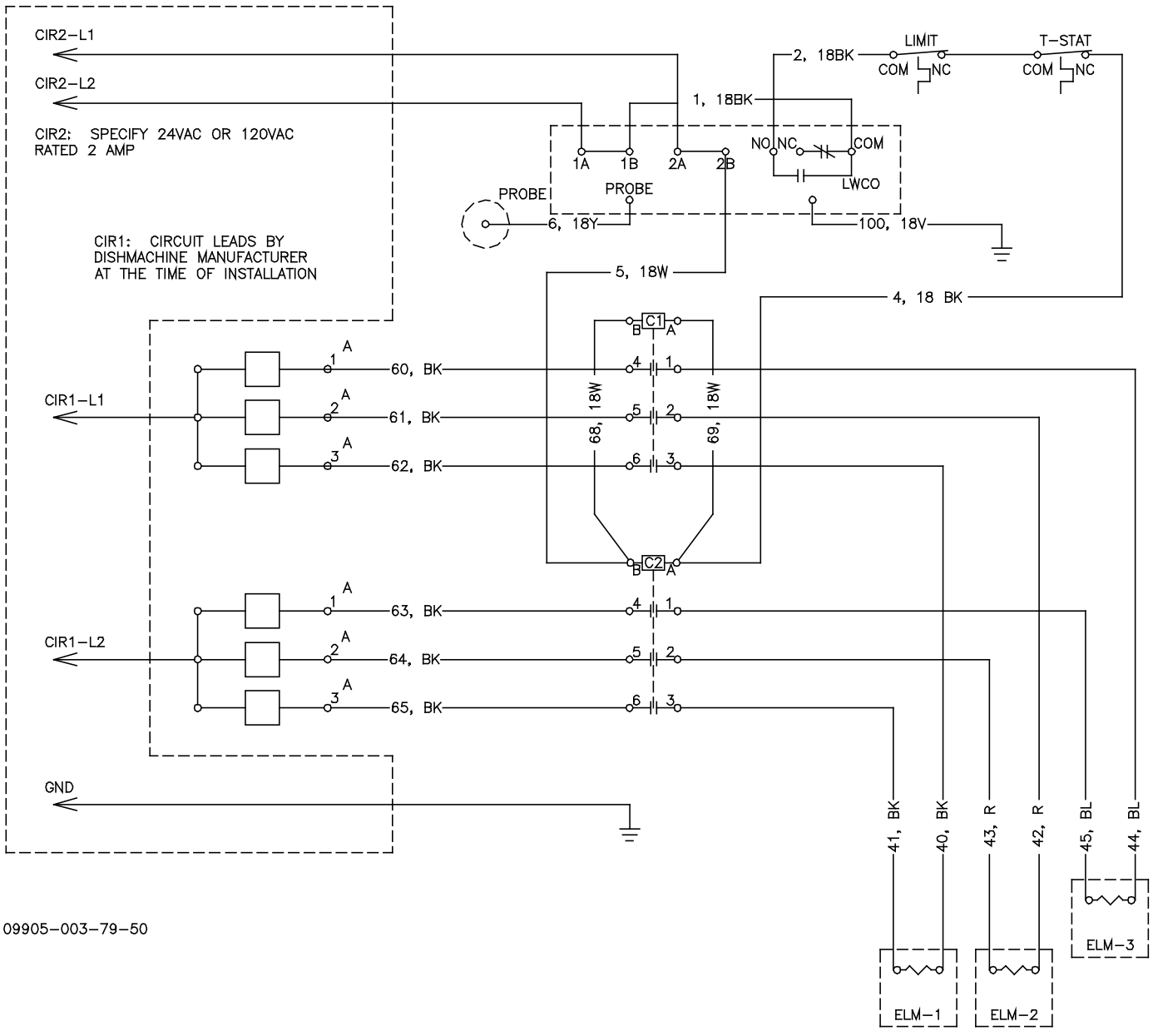


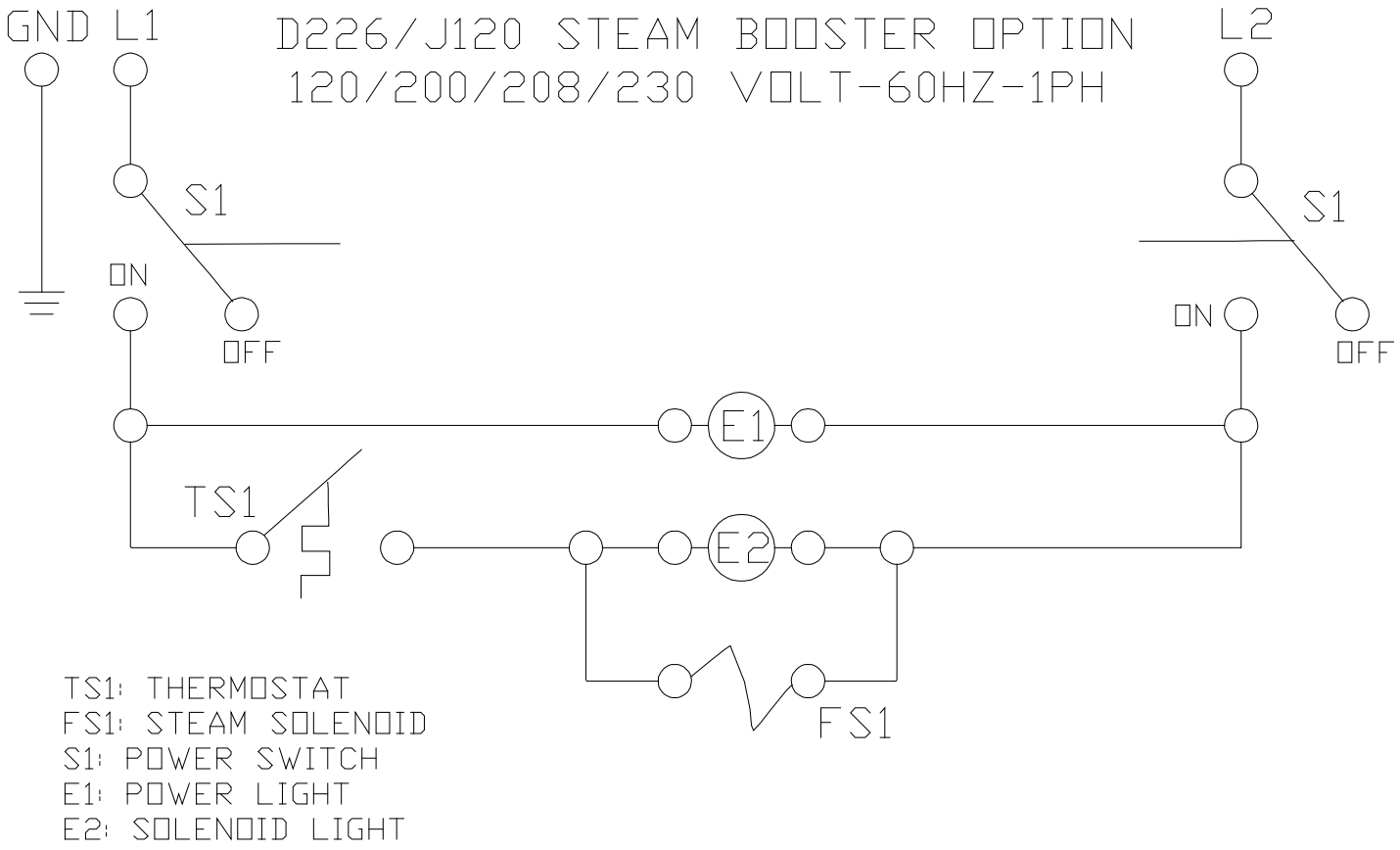
SCHEMATICS

BOOSTER HEATER, 1-PHASE, 18 kW

USE THIS SCHEMATIC FOR THE FOLLOWING BOOSTER HEATER OPTIONS:

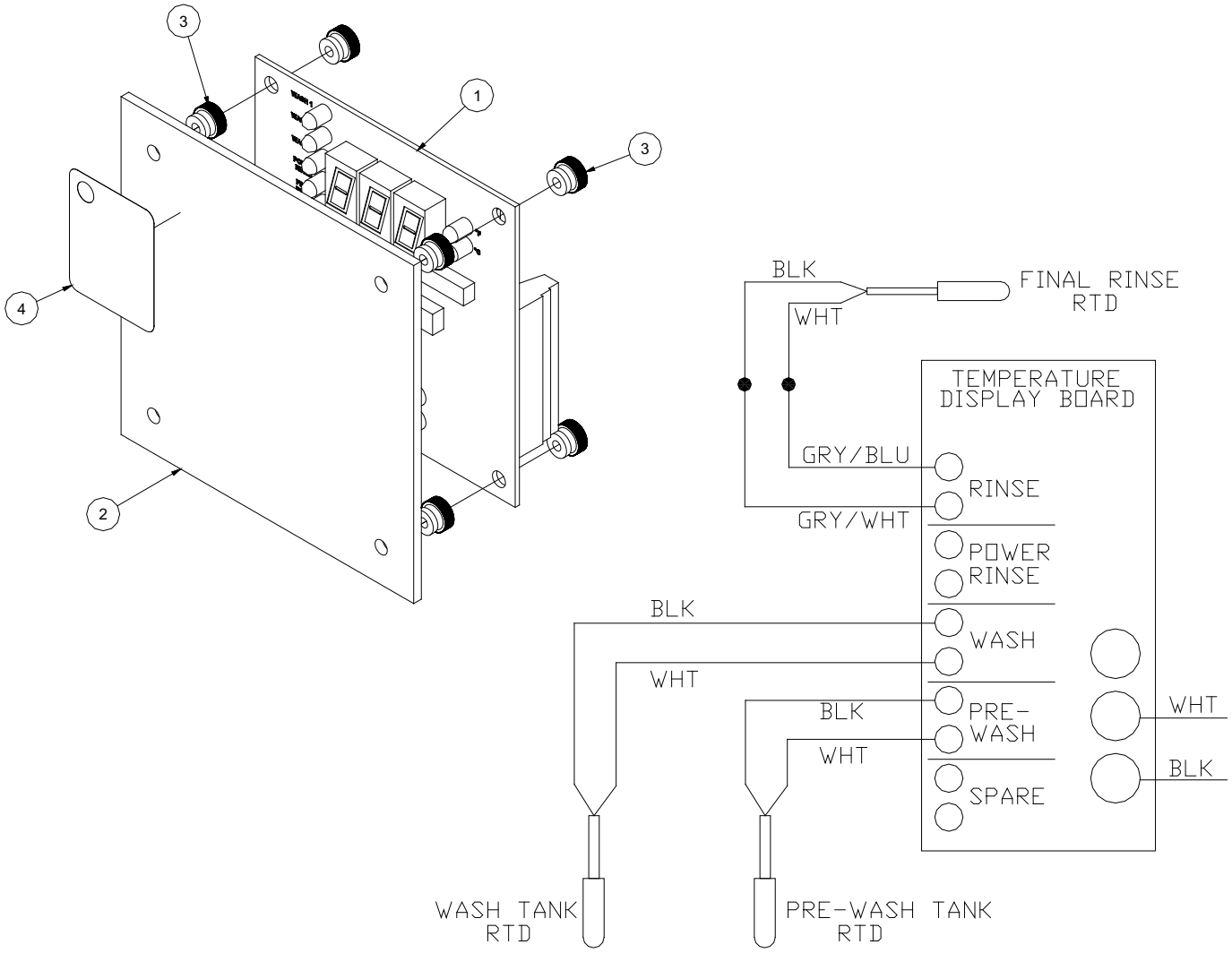
- 208V, 60Hz, 1-Phase, 18 kW, 70° Rise
- 230V, 60Hz, 1-Phase, 18 kW, 70° Rise




GND L1
D226/J120 STEAM BOOSTER OPTION
120/200/208/230 VOLT-60HZ-1PH
L2
S1
S1
ON
OFF
ON
OFF
E1
TS1
E2
FS1
TS1: THERMOSTAT
FS1: STEAM SOLENOID
S1: POWER SWITCH
E1: POWER LIGHT
E2: SOLENOID LIGHT

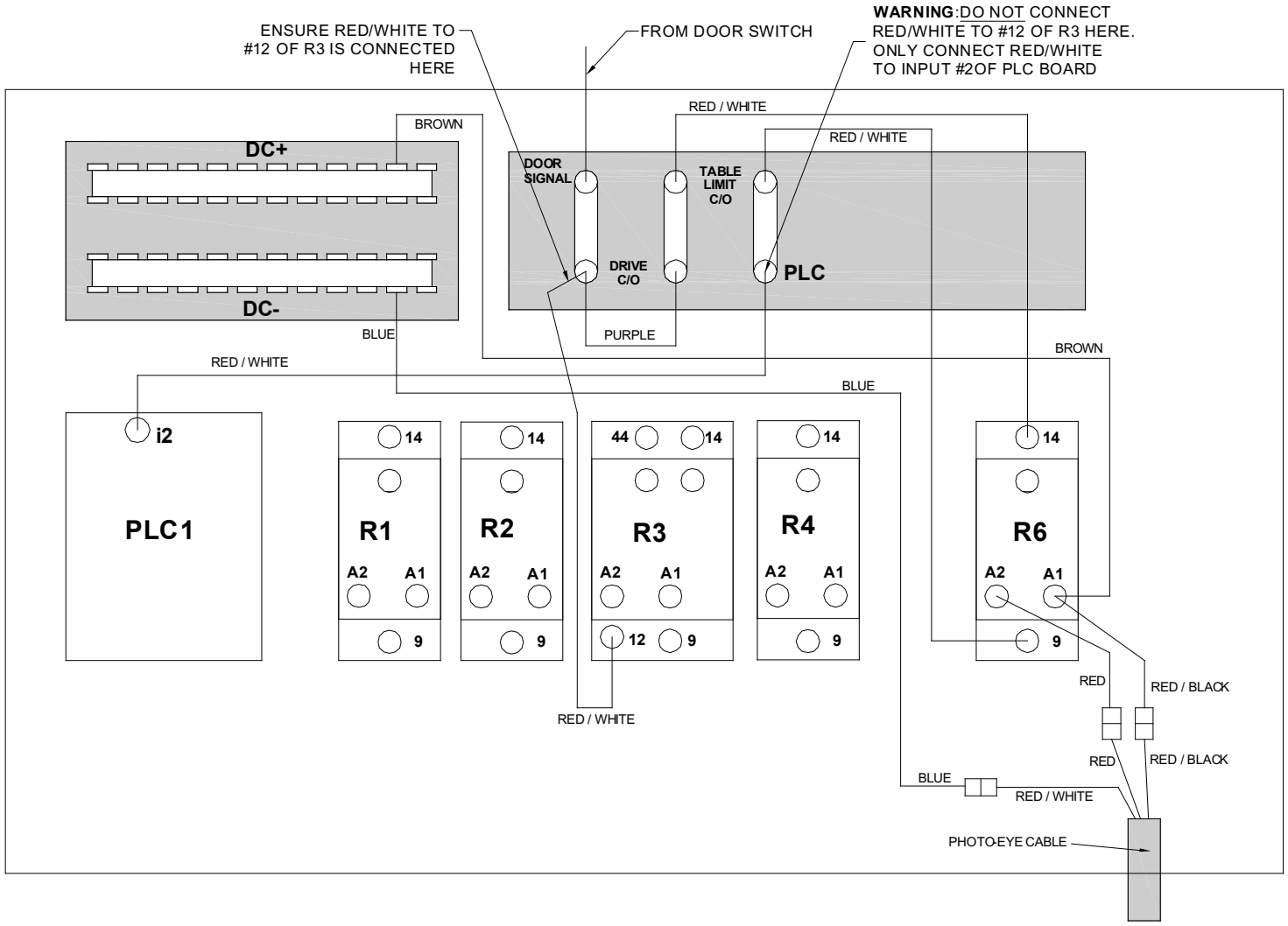
SCHEMATICS

TEMPERATURE BOARD



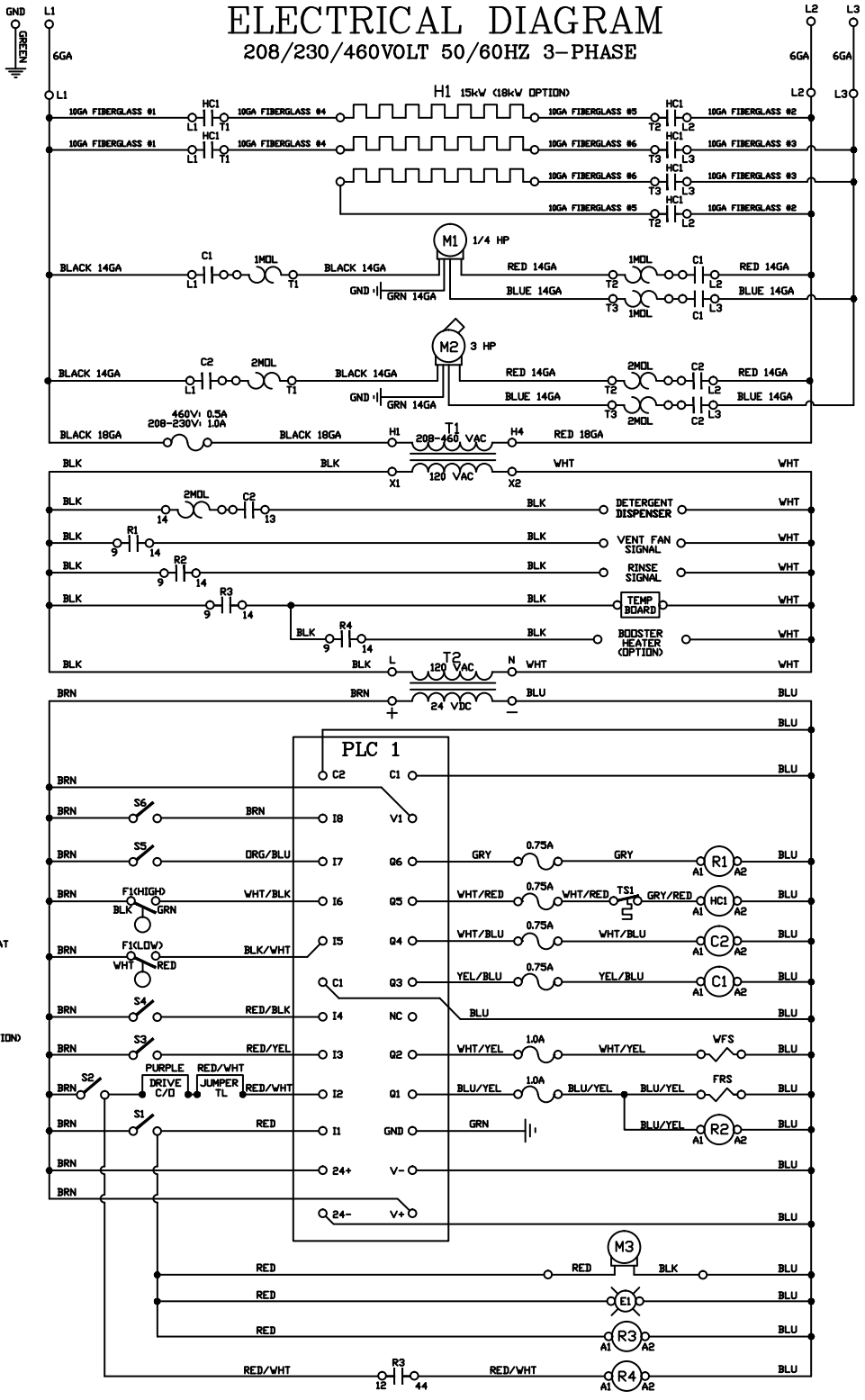
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Cyclic Temperature Board	06685-002-74-86
2	1	Gauge Cover, Red	05700-002-75-62
3	8	Nut, Thumb 6-32 Nylon	05310-002-83-12
4	1	Decal, Temperature Display	09905-003-78-29
5	2 (44") 3 (66")	RTD Temperature Probe (not shown)	06680-002-16-80

PHOTOCELL TABLE LIMIT SWITCH OPTION



SCHEMATICS

44" ELECTRICALLY HEATED (208/230/460 VOLT, 60 HZ, 3-PHASE)



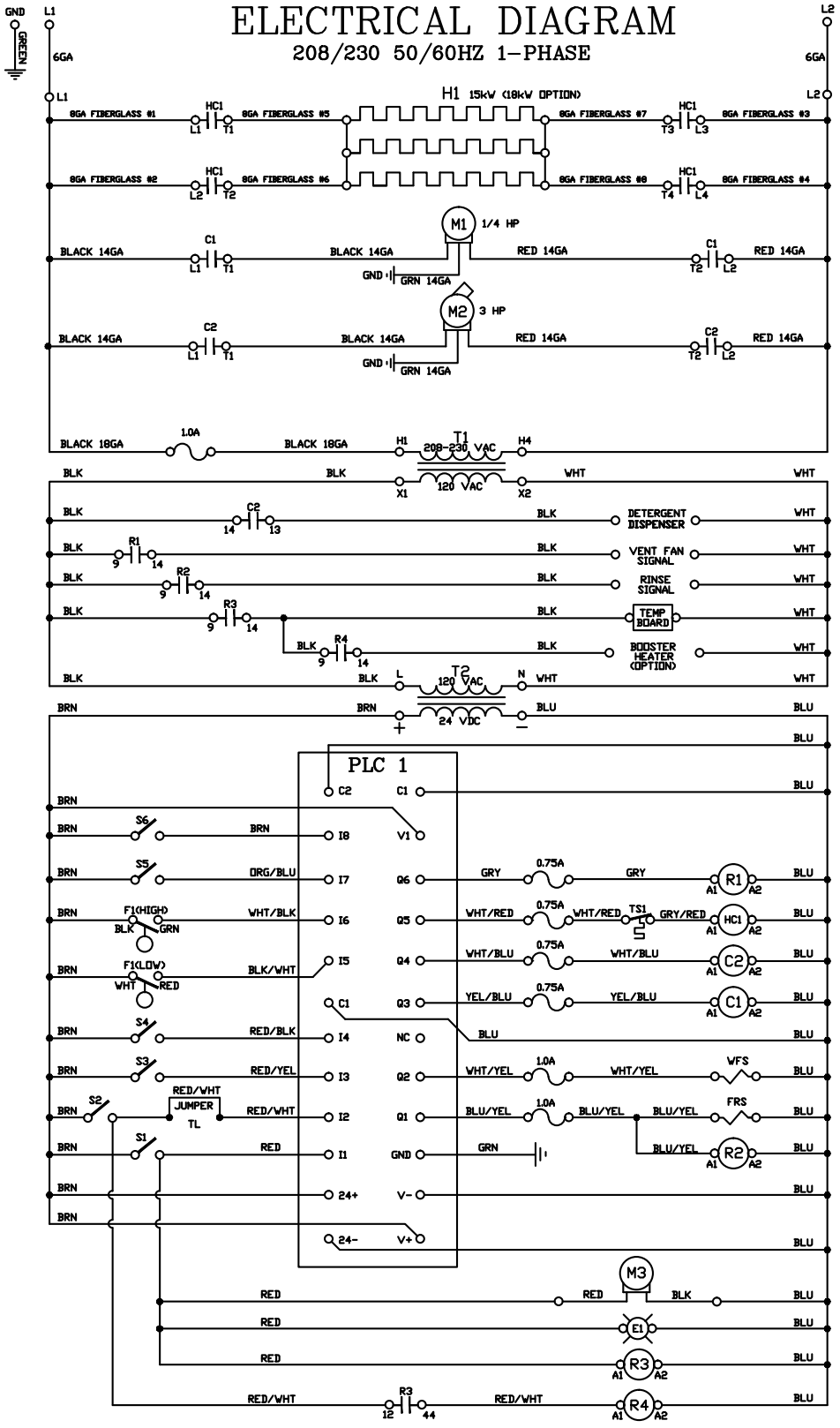
LEGEND

L1 L2 L3 POWER DISTRIBUTION BLOCK
GND GROUND
H1 WASH HEATER
M1 DRIVE MOTOR
M2 WASH PUMP MOTOR
M3 CONTROL BOX FAN (24VDC)
1MDL DRIVE MOTOR OVERLOAD
2MDL WASH PUMP MOTOR OVERLOAD
S1 POWER SWITCH
S2 DOOR SAFETY SWITCH
S3 RACK INLET SWITCH
S4 FINAL RINSE SWITCH
S5 DELIME SWITCH
S6 SIDE-LOADER SWITCH (OPTIONAL)
T1 TRANSFORMER (208-460V TO 120V)
T2 TRANSFORMER (120V TO 24VDC)

E1 POWER LIGHT
TS1 WASH REGULATING THERMOSTAT
WFS WASH FILL SOLENOID
FRS FINAL RINSE SOLENOID
R1 VENT FAN RELAY
R2 RINSE SIGNAL RELAY
R3 TEMPERATURE BOARD RELAY
R4 BOOSTER HEATER RELAY (OPTION)
HC1 WASH HEAT CONTACTOR
C1 DRIVE MOTOR CONTACTOR
C2 WASH MOTOR CONTACTOR
PLC1 LOGIC CONTROL BOARD
TL TABLE LIMIT (OPTION)

09905-003-75-52

44" ELECTRICALLY HEATED (208/230 VOLT, 60 HZ, 1-PHASE)



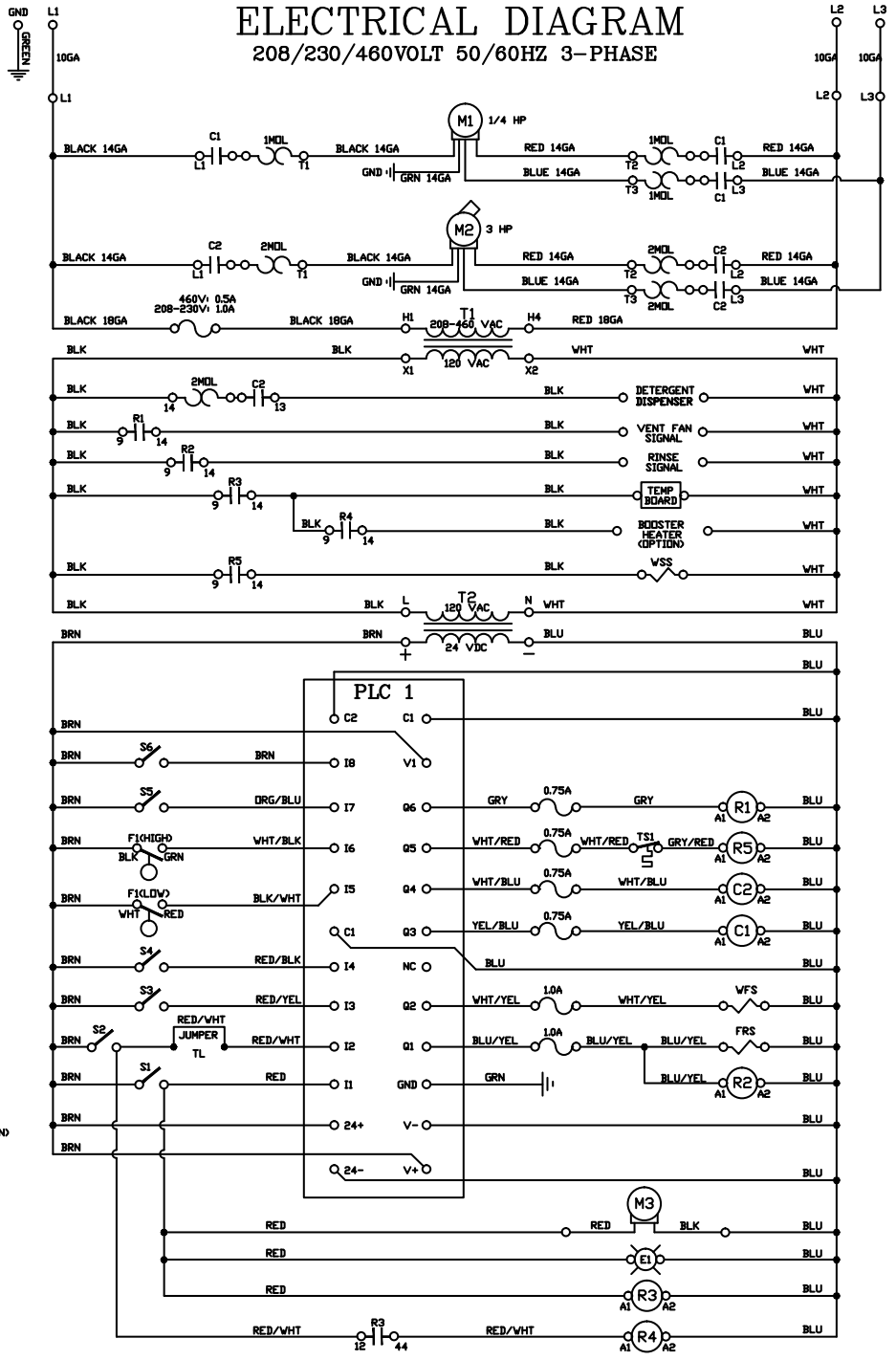
LEGEND

L1 L2	POWER DISTRIBUTION BLOCK
GND	GROUND
H1	WASH HEATER
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	CONTROL BOX FAN (24VDC)
S1	POWER SWITCH
S2	DOOR SAFETY SWITCH
S3	RACK INLET SWITCH
S4	FINAL RINSE SWITCH
S5	DELIME SWITCH
S6	SIDE LOADER SWITCH (OPTIONAL)
T1	TRANSFORMER (208-460V TO 120V)
T2	TRANSFORMER (120V TO 24VDC)
E1	POWER LIGHT
TS1	WASH REGULATING THERMOSTAT
FRS	WASH FILL SOLENOID
WFS	FINAL RINSE SOLENOID
R1	VENT FAN RELAY
R2	RINSE SIGNAL RELAY
R3	TEMPERATURE BOARD RELAY
R4	BOOSTER HEATER RELAY (OPTION)
HC1	WASH HEAT CONTACTOR
C1	DRIVE MOTOR CONTACTOR
C2	WASH MOTOR CONTACTOR
PLC1	LOGIC CONTROL BOARD
TL	TABLE LIMIT (OPTION)

09905-003-79-33

SCHEMATICS

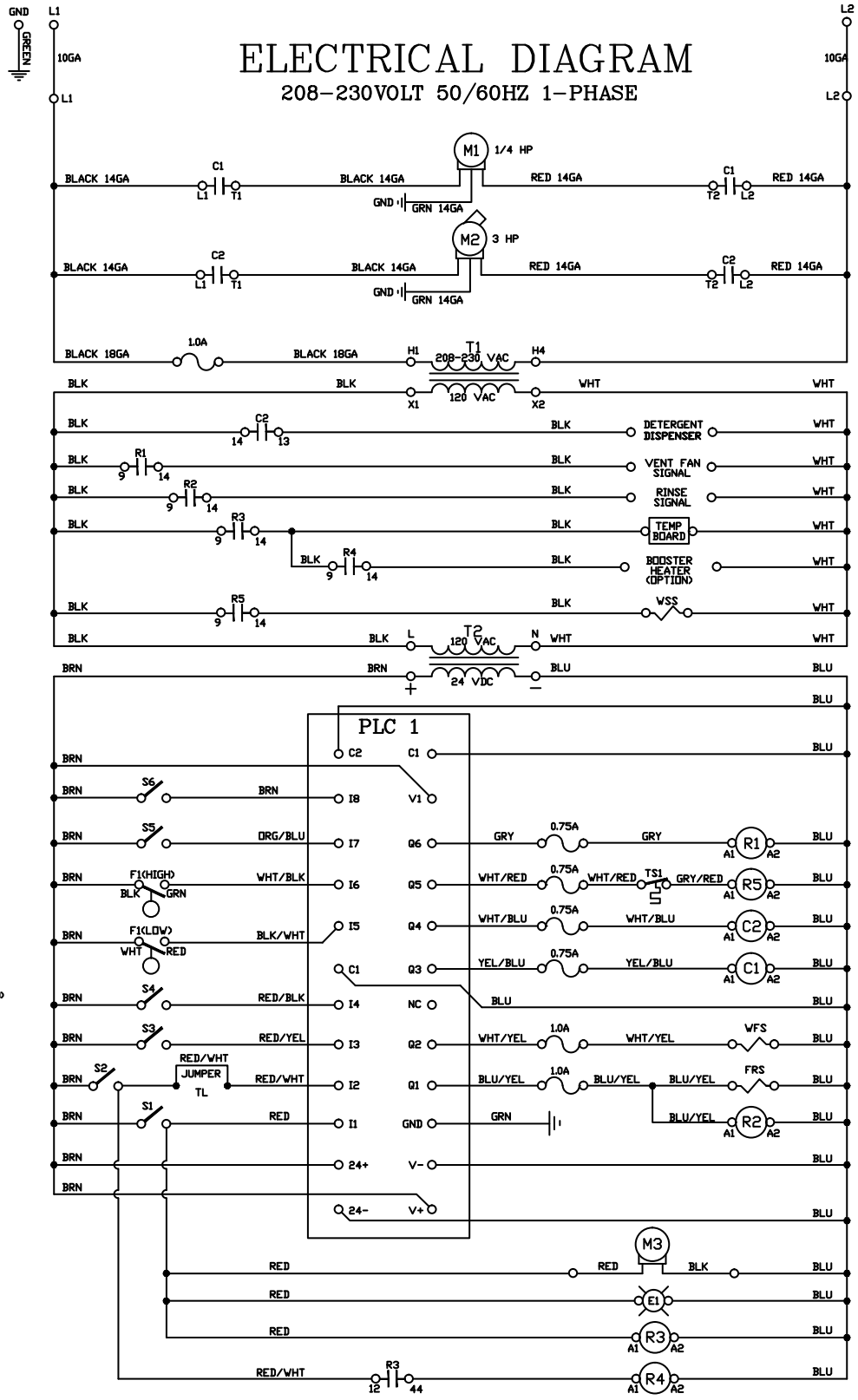
44" STEAM HEATED (208/230/460 VOLT, 60 HZ, 3-PHASE)



LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK
GND	GROUND
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	CONTROL BOX FAN (24VDC)
1MOL	DRIVE MOTOR OVERLOAD
2MOL	WASH PUMP MOTOR OVERLOAD
S1	POWER SWITCH
S2	DOOR SAFETY SWITCH
S3	RACK INLET SWITCH
S4	FINAL RINSE SWITCH
S5	DELIME SWITCH
S6	SIDE-LOADER SWITCH (OPTIONAL)
T1	TRANSFORMER (208-460V TO 120V)
T2	TRANSFORMER (120V TO 24VDC)
E1	POWER LIGHT
TS1	WASH REGULATING THERMOSTAT
WSS	WASH TANK STEAM SOLENOID
WFS	WASH FILL SOLENOID
FRS	FINAL RINSE SOLENOID
R1	VENT FAN RELAY
R2	RINSE SIGNAL RELAY
R3	TEMPERATURE BOARD RELAY
R4	BOOSTER HEATER RELAY (OPTION)
R5	WASH TANK STEAM RELAY
C1	DRIVE MOTOR CONTACTOR
C2	WASH MOTOR CONTACTOR
PLC1	LOGIC CONTROL BOARD
TL	TABLE LIMIT (OPTION)

09905-003-79-52



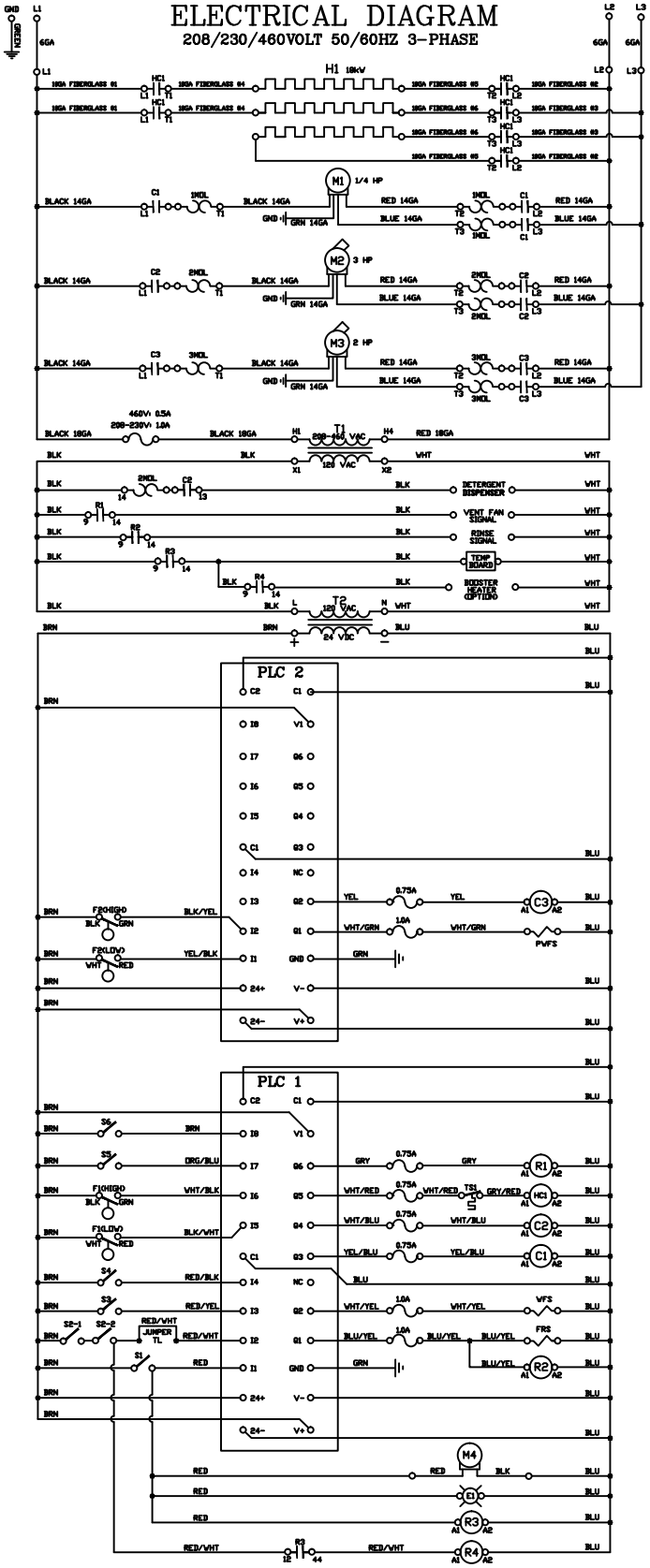
LEGEND

L1 L2	POWER DISTRIBUTION BLOCK
GND	GROUND
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	CONTROL BOX FAN (24VDC)
S1	POWER SWITCH
S2	DOOR SAFETY SWITCH
S3	RACK INLET SWITCH
S4	FINAL RINSE SWITCH
S5	DELIME SWITCH
T1	TRANSFORMER (208-460V TO 120V)
T2	TRANSFORMER (120V TO 24VDC)
E1	POWER LIGHT
TS1	WASH REGULATING THERMOSTAT
WSS	WASH TANK STEAM SOLENOID
WFS	WASH FILL SOLENOID
FRS	FINAL RINSE SOLENOID
R1	VENT FAN RELAY
R2	RINSE SIGNAL RELAY
R3	TEMPERATURE BOARD RELAY
R4	BOOSTER HEATER RELAY (OPTION)
R5	WASH TANK STEAM RELAY
C1	DRIVE MOTOR CONTACTOR
C2	WASH MOTOR CONTACTOR
PLC1	LOGIC CONTROL BOARD
TL	TABLE LIMIT (OPTION)

09905-003-79-53

SCHEMATICS

66" ELECTRICALLY HEATED (208/230/460 VOLT, 60 HZ, 3-PHASE)

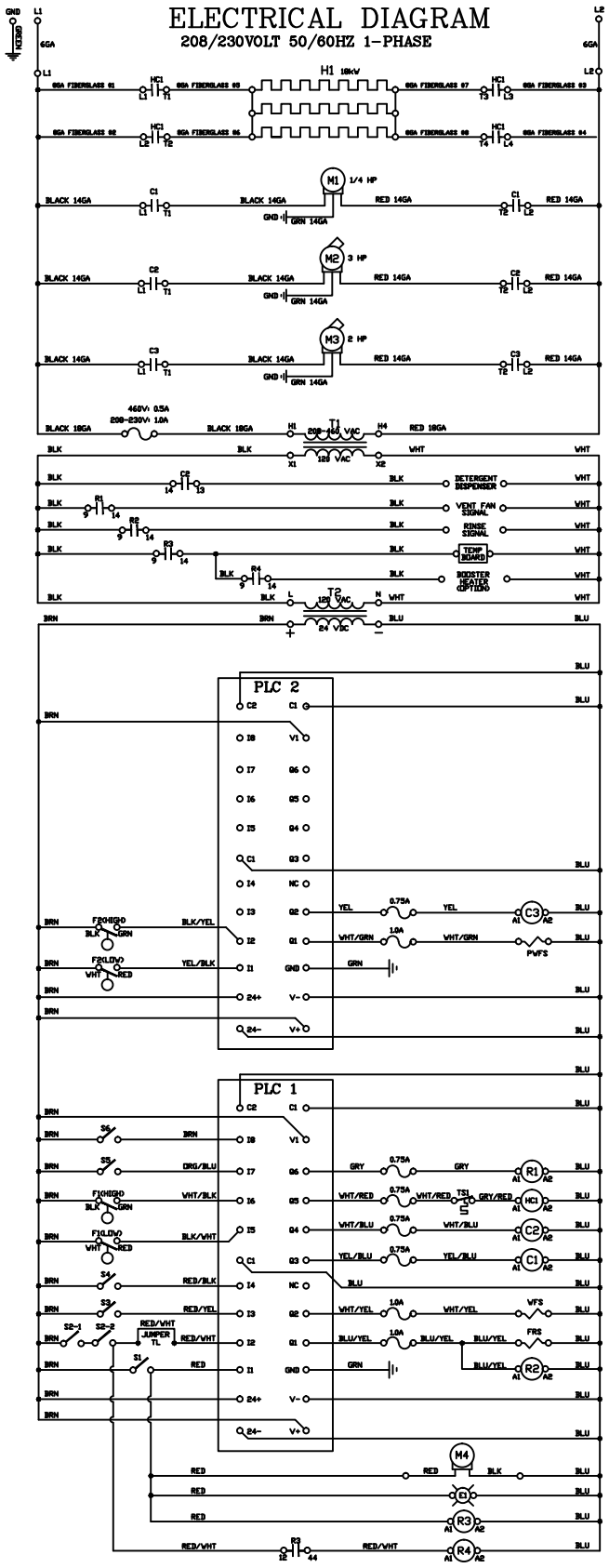


LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK	F1	WASH TANK FLOAT
GND	GROUND	F2	PRE-WASH TANK FLOAT
H1	WASH HEATER	E1	POWER LIGHT
M1	DRIVE MOTOR	TS1	WASH REGULATING THERMOSTAT
M2	WASH PUMP MOTOR	PWFS	PRE-WASH FILL SOLENOID
M3	PRE-WASH PUMP MOTOR	WFS	WASH FILL SOLENOID
M4	CONTROL BOX FAN (24VDC)	FRS	FINAL RINSE SOLENOID
1MOL	DRIVE MOTOR OVERLOAD	R1	VENT FAN RELAY
2MOL	WASH PUMP MOTOR OVERLOAD	R2	RINSE SIGNAL RELAY
3MOL	PRE-WASH PUMP MOTOR OVERLOAD	R3	TEMPERATURE BOARD RELAY
S1	POWER SWITCH	R4	BOOSTER HEATER RELAY (OPTION)
S2-1	DOOR SAFETY SWITCH (WASH)	HC1	WASH HEAT CONTACTOR
S2-2	DOOR SAFETY SWITCH (PRE-WASH)	C1	DRIVE MOTOR CONTACTOR
S3	RACK INLET SWITCH	C2	WASH MOTOR CONTACTOR
S4	FINAL RINSE SWITCH	C3	PRE-WASH MOTOR CONTACTOR
S5	DELIME SWITCH	PLC1	LOGIC CONTROL BOARD
S6	SIDE LOADER SWITCH (OPTIONAL)	PLC2	LOGIC CONTROL BOARD (EXPANSION UNIT)
T1	TRANSFORMER (208-460V TO 120V)	TL	TABLE LIMIT (OPTION)
T2	TRANSFORMER (120V TO 24VDC)		

09905-003-82-16-A

66" ELECTRICALLY HEATED (208/230 VOLT, 60 HZ, 1-PHASE)



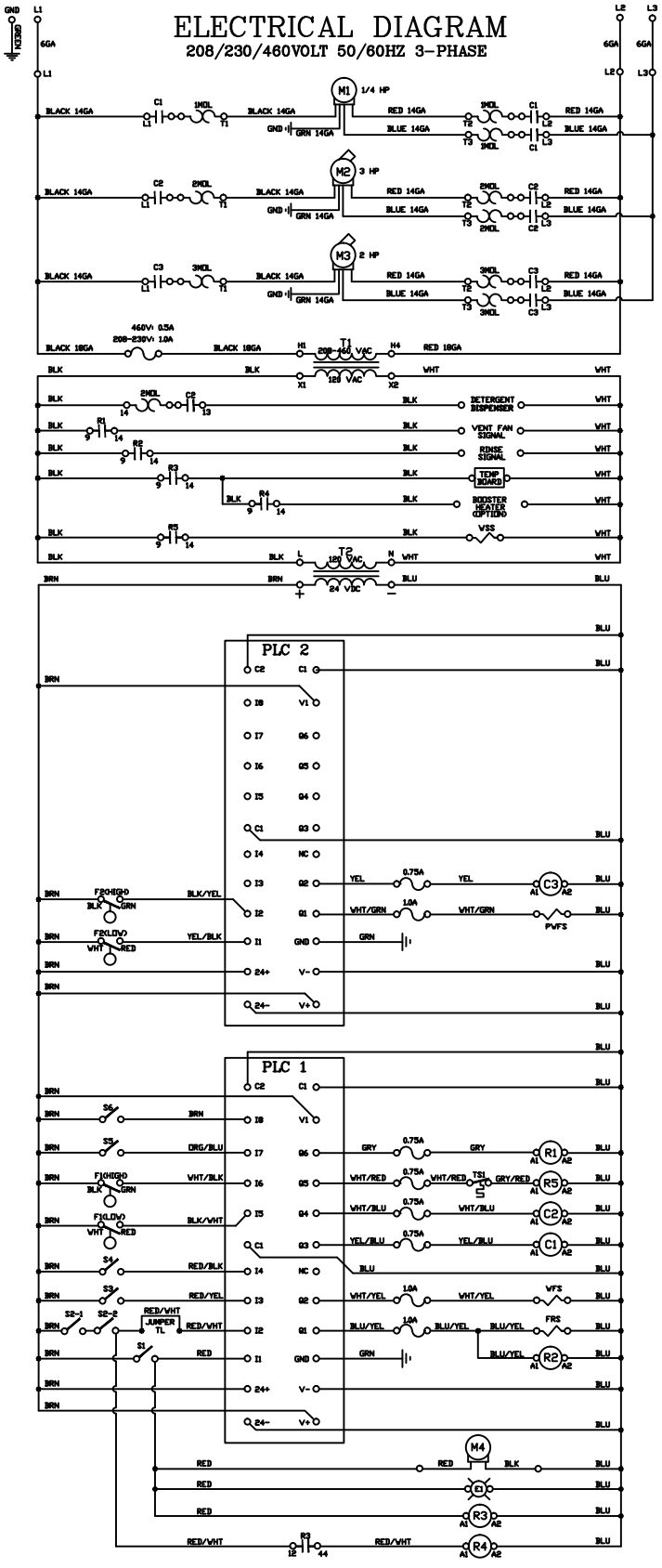
LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK
GND	GROUND
H1	WASH HEATER
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	PRE-WASH PUMP MOTOR
M4	CONTROL BOX FAN (24VDC)
S1	POWER SWITCH
S2-1	DOOR SAFETY SWITCH (WASH)
S2-2	DOOR SAFETY SWITCH (PRE-WASH)
S3	RACK INLET SWITCH
S4	FINAL RINSE SWITCH
S5	DELIME SWITCH
S6	SIDE-LOADER SWITCH (OPTIONAL)
T1	TRANSFORMER (208-460V TO 120V)
T2	TRANSFORMER (120V TO 24VDC)
F1	WASH TANK FLOAT
F2	PRE-WASH TANK FLOAT
E1	POWER LIGHT
TS1	WASH REGULATING THERMOSTAT
PWFS	PRE-WASH FILL SOLENOID
WFS	WASH FILL SOLENOID
FRS	FINAL RINSE SOLENOID
R1	VENT FAN RELAY
R2	RINSE SIGNAL RELAY
R3	TEMPERATURE BOARD RELAY
R4	BOOSTER HEATER RELAY (OPTION)
HC1	WASH HEAT CONTACTOR
C1	DRIVE MOTOR CONTACTOR
C2	WASH MOTOR CONTACTOR
C3	PRE-WASH MOTOR CONTACTOR
PLC1	LOGIC CONTROL BOARD
PLC2	LOGIC CONTROL BOARD (EXPANSION UNIT)
TL	TABLE LIMIT (OPTION)

09905-003-84-01

SCHEMATICS

66" STEAM HEATED (208/230/460 VOLT, 60 HZ, 3-PHASE)

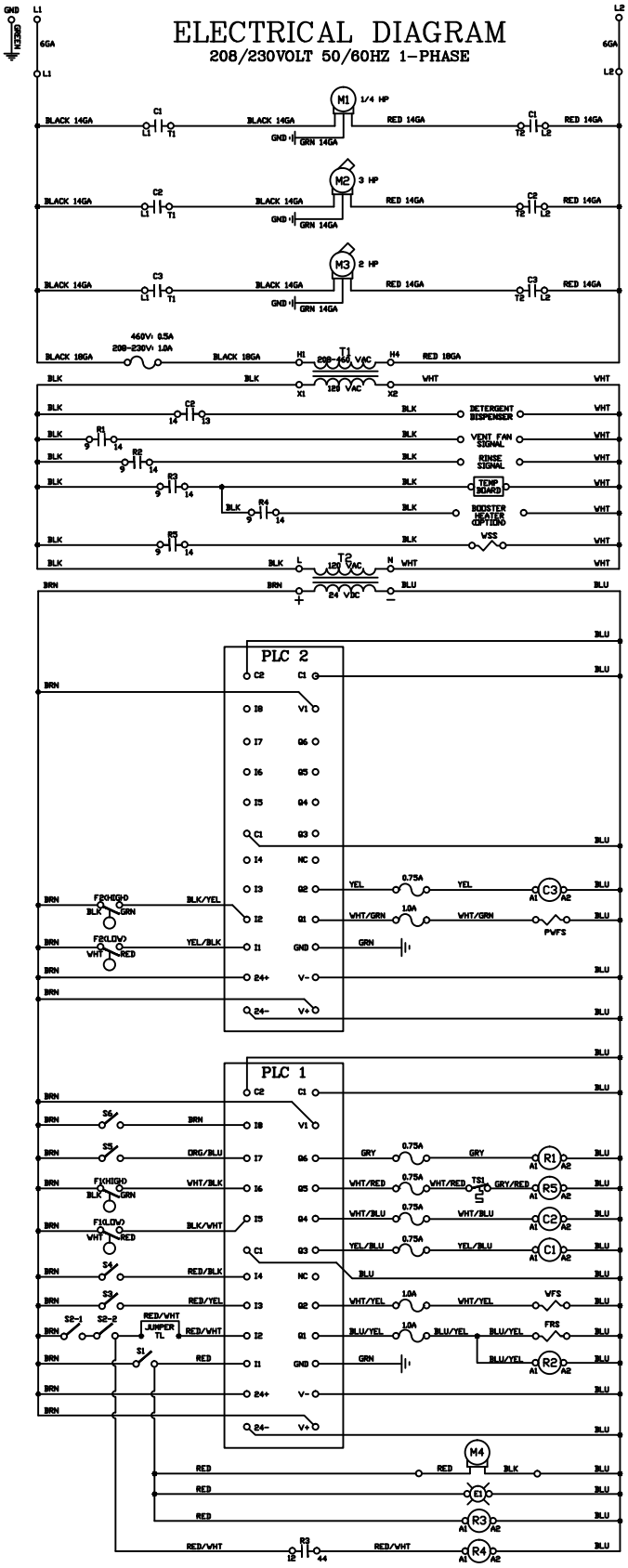


LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK
GND	GROUND
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	PRE-WASH PUMP MOTOR
M4	CONTROL BOX FAN (24VDC)
1MOL	DRIVE MOTOR OVERLOAD
2MOL	WASH PUMP MOTOR OVERLOAD
3MOL	PRE-WASH PUMP MOTOR OVERLOAD
S1	POWER SWITCH
S2-1	DOOR SAFETY SWITCH (WASH)
S2-2	DOOR SAFETY SWITCH (PRE-WASH)
S3	RACK INLET SWITCH
S4	FINAL RINSE SWITCH
S5	DELIME SWITCH
S6	SIDE-LOADER SWITCH (OPTIONAL)
T1	TRANSFORMER (208-460V TO 120V)
T2	TRANSFORMER (120V TO 24VDC)
F1	WASH TANK FLOAT
F2	PRE-WASH TANK FLOAT
E1	POWER LIGHT
TS1	WASH REGULATING THERMOSTAT
PWFS	PRE-WASH FILL SOLENOID
WFS	WASH FILL SOLENOID
FRS	FINAL RINSE SOLENOID
WSS	WASH TANK STEAM SOLENOID
R1	VENT FAN RELAY
R2	RINSE SIGNAL RELAY
R3	TEMPERATURE BOARD RELAY
R4	BOOSTER HEATER RELAY (OPTION)
R5	WASH TANK STEAM RELAY
C1	DRIVE MOTOR CONTACTOR
C2	WASH MOTOR CONTACTOR
C3	PRE-WASH MOTOR CONTACTOR
PLC1	LOGIC CONTROL BOARD
PLC2	LOGIC CONTROL BOARD (EXPANSION UNIT)
TL	TABLE LIMIT (OPTION)

09905-003-84-02

66" STEAM HEATED (208/230 VOLT, 60 HZ, 1-PHASE)



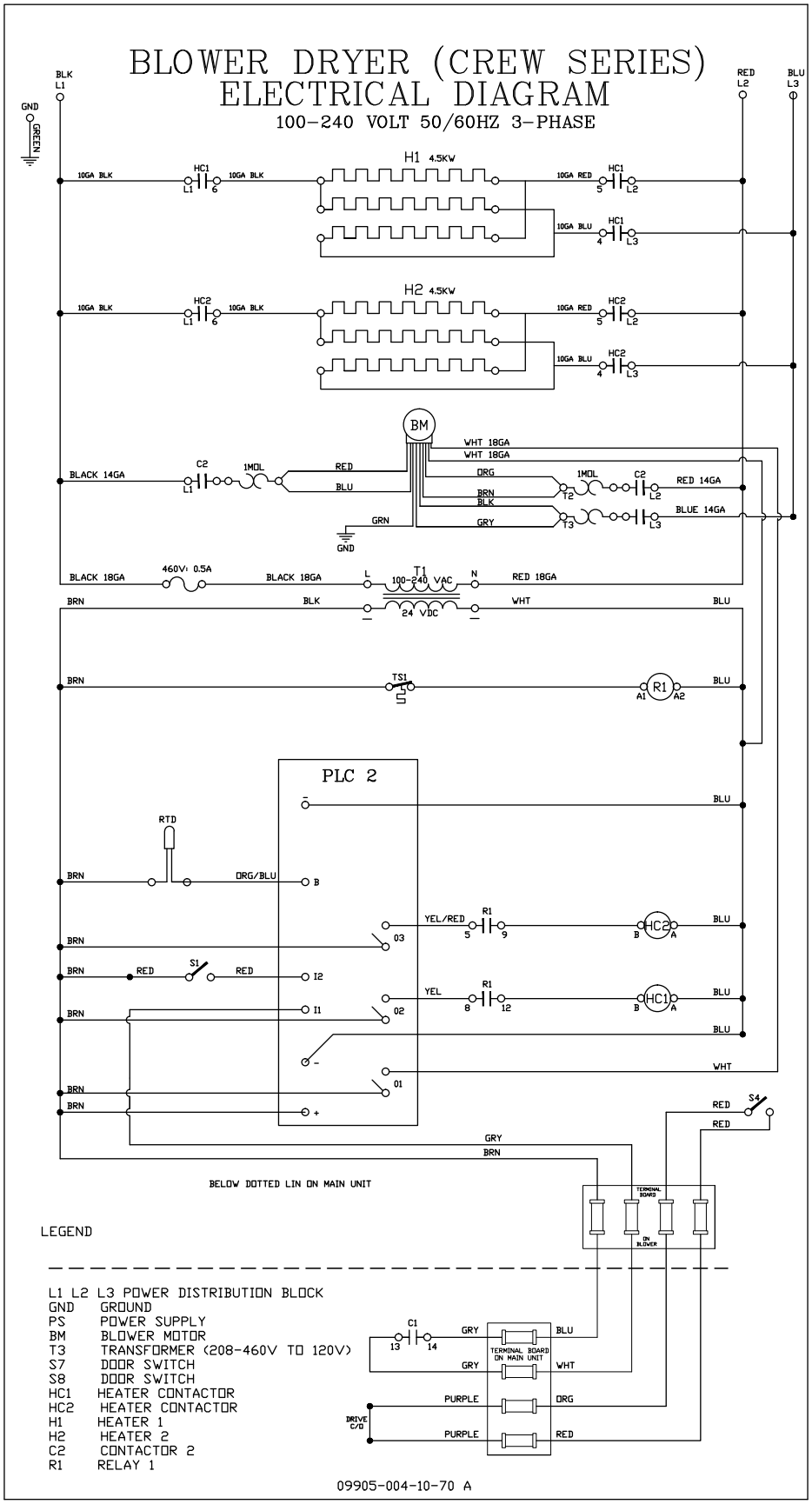
LEGEND

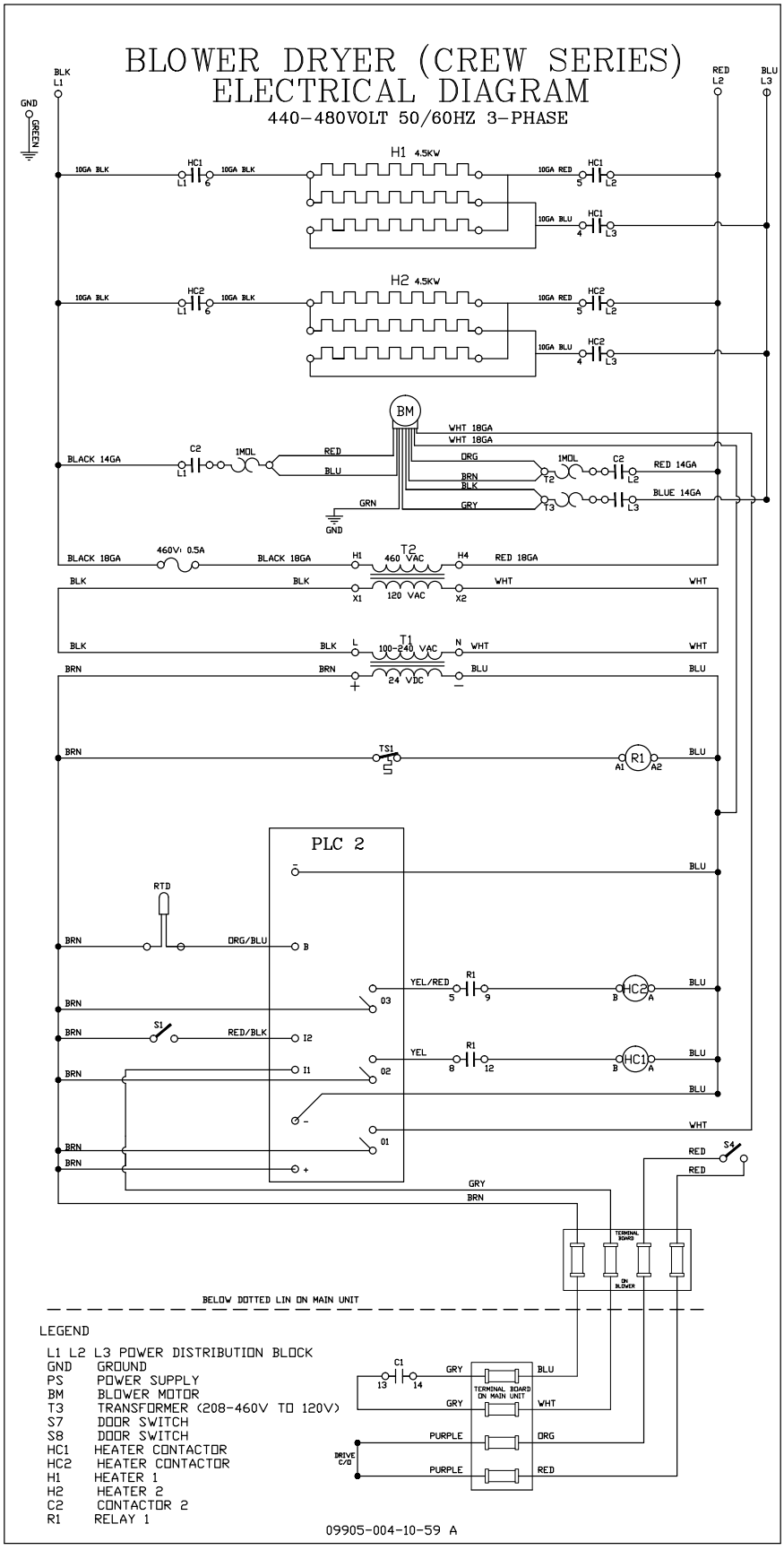
L1 L2 L3 POWER DISTRIBUTION BLOCK

GND	GROUND
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	PRE-WASH PUMP MOTOR
M4	CONTROL BOX FAN (24VDC)
S1	POWER SWITCH
S2-1	DOOR SAFETY SWITCH (WASH)
S2-2	DOOR SAFETY SWITCH (PRE-WASH)
S3	RACK INLET SWITCH
S4	FINAL RINSE SWITCH
S5	DELIME SWITCH
S6	SIDE-LOADER SWITCH (OPTIONAL)
T1	TRANSFORMER (208-460V TO 120V)
T2	TRANSFORMER (120V TO 24VDC)
C1	DRIVE MOTOR CONTACTOR
C2	WASH MOTOR CONTACTOR
C3	PRE-WASH MOTOR CONTACTOR
F1	WASH TANK FLOAT
F2	PRE-WASH TANK FLOAT
E1	POWER LIGHT
TS1	WASH REGULATING THERMOSTAT
PWFS	PRE-WASH FILL SOLENOID
WFS	WASH FILL SOLENOID
FRS	FINAL RINSE SOLENOID
WSS	WASH TANK STEAM SOLENOID
R1	VENT FAN RELAY
R2	RINSE SIGNAL RELAY
R3	TEMPERATURE BOARD RELAY
R4	BOOSTER HEATER RELAY (OPTION)
R5	WASH TANK STEAM RELAY
PLC1	LOGIC CONTROL BOARD
PLC2	LOGIC CONTROL BOARD (EXPANSION UNIT)
TL	TABLE LIMIT (OPTION)

09905-003-84-03

ELECTRICAL SCHEMATICS, 240V




BLOWER DRYER (CREW SERIES)
ELECTRICAL DIAGRAM
440-480VOLT 50/60HZ 3-PHASE
BLK L1
RED L2
BLU L3
GND GREEN
H1 4.5KW
H2 4.5KW
HC1
HC2
10GA BLK
10GA RED
10GA BLU
BM
WHT 18GA
WHT 18GA
BLACK 14GA
RED 14GA
BLUE 14GA
C2
1MDL
RED
BLU
ORG
BRN
BLK
GRN
GRY
GND
BLACK 18GA
460V: 0.5A
RED 18GA
T2
460 VAC
120 VAC
T1
100-240 VAC
24 VDC
TS1
R1
PLC 2
RTD
ORG/BLU
YEL/RED
YEL
RED/BLK
S1
S4
TERMINAL BOARDS ON BLOWER
BELOW DOTTED LIN ON MAIN UNIT
TERMINAL BOARD IN MAIN UNIT
C1
DRIVE C/O
LEGEND
L1 L2 L3 POWER DISTRIBUTION BLOCK
GND GROUND
PS POWER SUPPLY
BM BLOWER MOTOR
T3 TRANSFORMER (208-460V TO 120V)
S7 DOOR SWITCH
S8 DOOR SWITCH
HC1 HEATER CONTACTOR
HC2 HEATER CONTACTOR
H1 HEATER 1
H2 HEATER 2
C2 CONTACTOR 2
R1 RELAY 1
09905-004-10-59 A

Jackson